Operating Instructions

STEREO FILE-TYPE CD CASSETTE DECK RECEIVER

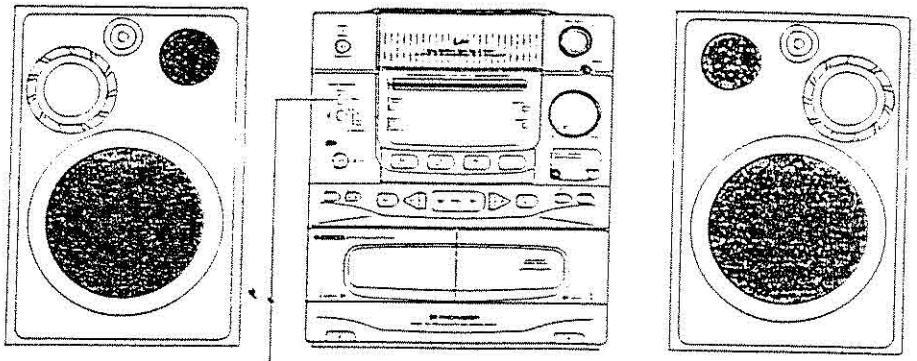
XR-P560F
XR-P460F

SPEAKER SYSTEM

S-P760V
S-P460V

COMPACT disc DIGITAL AUDIO

25 DISC



The illustration shows XR-P560F and S-P760V.

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

[For Canadian model]

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

DEMO FUNCTION

If you connect the power plug to a wall outlet, power to the un switches ON, and DEMO mode operation starts. And if the P.BAS (DEMO) button is pressed when the power is OFF, the demonstratio mode will be selected and power will be turned ON automatically

- To exit the demo mode, press either the POWER STANDBY ON switch or P.BASS (DEMO) button on the main unit or th POWER button on the remote control unit.

ATTENTION : POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

IMPORTANT NOTICE

[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

PIONEER®

The Art of Entertainment

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

WATER AND MOISTURE — The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION — The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.

VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION — If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES — An outdoor antenna should be located away from power lines.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

OUTDOOR ANTENNA GROUNDING — If an outdoor antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

CART — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

NEC — NATIONAL ELECTRIC CODE

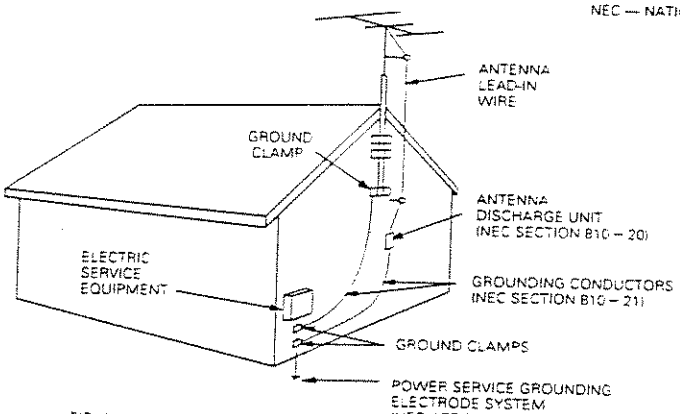

ANTENNA LEAD-IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810 – 20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810 – 21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

FIG. A

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

NOTE IMPORTANTE SUR LE CABLE D'ALIMENTATION

Tenir le câble d'alimentation par la fiche. Ne pas débrancher la prise en tirant sur le câble et ne pas toucher le câble avec les mains mouillées. Cela risque de provoquer un court-circuit ou un choc électrique. Ne pas poser l'appareil ou un meuble sur le câble. Ne pas pincer le câble. Ne pas faire de noeud avec le câble ou l'attacher à d'autres câbles. Les câbles d'alimentation doivent être posés de façon à ne pas être écrasés. Un câble abîmé peut provoquer un risque d'incendie ou un choc électrique. Vérifier le câble d'alimentation de temps en temps. Contacter le service après-vente PIONEER le plus proche ou le revendeur pour un remplacement.

[For Canadian model]

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

[Pour le modèle Canadien]

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le materiel brouilleur du Canada.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

[FOR U.S. MODEL]

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.

— Increase the separation between the equipment and receiver.

— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

— Consult the dealer or an experienced radio/TV technician for help.

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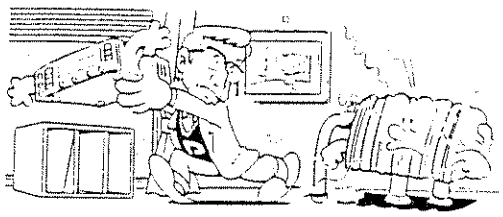
CAUTIONS REGARDING HANDLING

Location

Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.
Do not install the unit in a location which is exposed to direct rays of the sun, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may result in a malfunction or accident. (Also avoid installation near cookers, etc., where the unit may be exposed to smoke from oil, steam, or heat.)
Do not install the unit on a tottered stand, nor on an unstable or inclined surface.



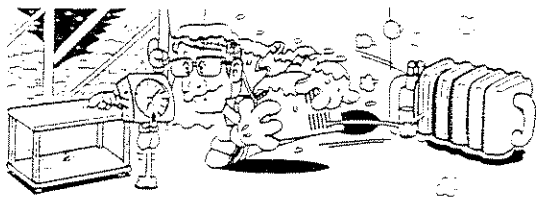
Precautions regarding installation

- Placing and using the unit for long periods on heat-generating sources will affect performance. Avoid placing the unit on heat-generating sources.
- Install the unit as far away as possible from your TV. Installation in close proximity to such equipment may cause noise or degradation of the picture.
- Such noise may be particularly noticeable when an indoor antenna is used. In such cases, make use of an outdoor antenna, or turn off the power of the unit.
- Please place this unit on a level surface.

There is a vent for the cooling fan on the rear of this unit. Blocking or obstructing this vent may result in faulty operation, so make sure there is a space of at least 10cm between the rear of the unit and the wall or other surface.

Condensation

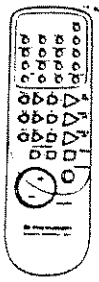
When this unit is brought into a warm room from previously cold surroundings or when the room temperature rises sharply, condensation may form inside and the unit may not be able to attain its full performance. To prevent this, allow the unit to stand for about an hour before switching it on or raise the room temperature gradually.



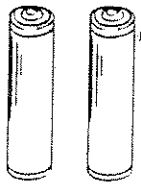
This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

CONFIRM SUPPLIED ACCESSORIES

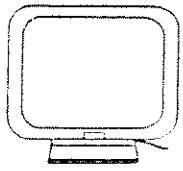
① Remote control unit x 1



② AAA/R03 dry cell batteries x 2

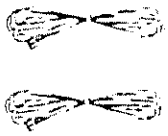


③ AM loop antenna x 1 (shown assembled)

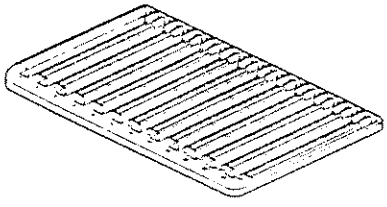


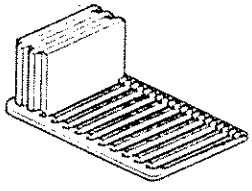
④ FM antenna x 1

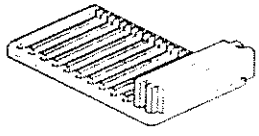
⑤ Speaker cords x 2 (Supplied with speaker system)



⑥ CD case stand x 1





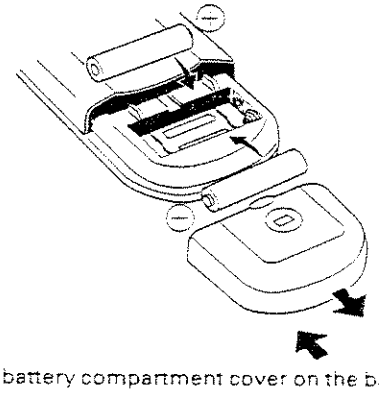


I see!
It's convenient to match the disc case number with the number of the disc loaded in the unit.

Note!!
Some disc cases (like two-disc cases) may not fit.

- Load single CD cases as shown in the figure.

LOADING BATTERIES INTO REMOTE CONTROL UNIT



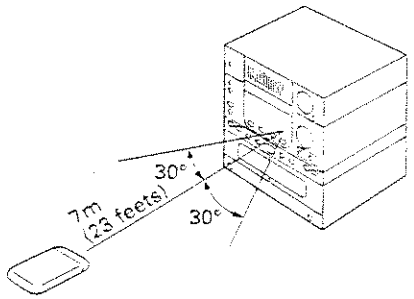
Open the battery compartment cover on the back of the remote control unit.
Insert size AAA/R03 dry cell batteries into the battery compartment in accordance with the indications (⊕, ⊖) inside the compartment.
Close the cover of the battery case.

Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:
A. Always insert batteries into the battery compartment, correctly matching the positive ⊕ and negative ⊖ polarities, as shown by the display inside the compartment.
B. Never mix new and used batteries.
C. Batteries of the same size may have different voltages, depending on brand. Do not mix different brands of batteries.

REMOTE CONTROL OPERATIONS

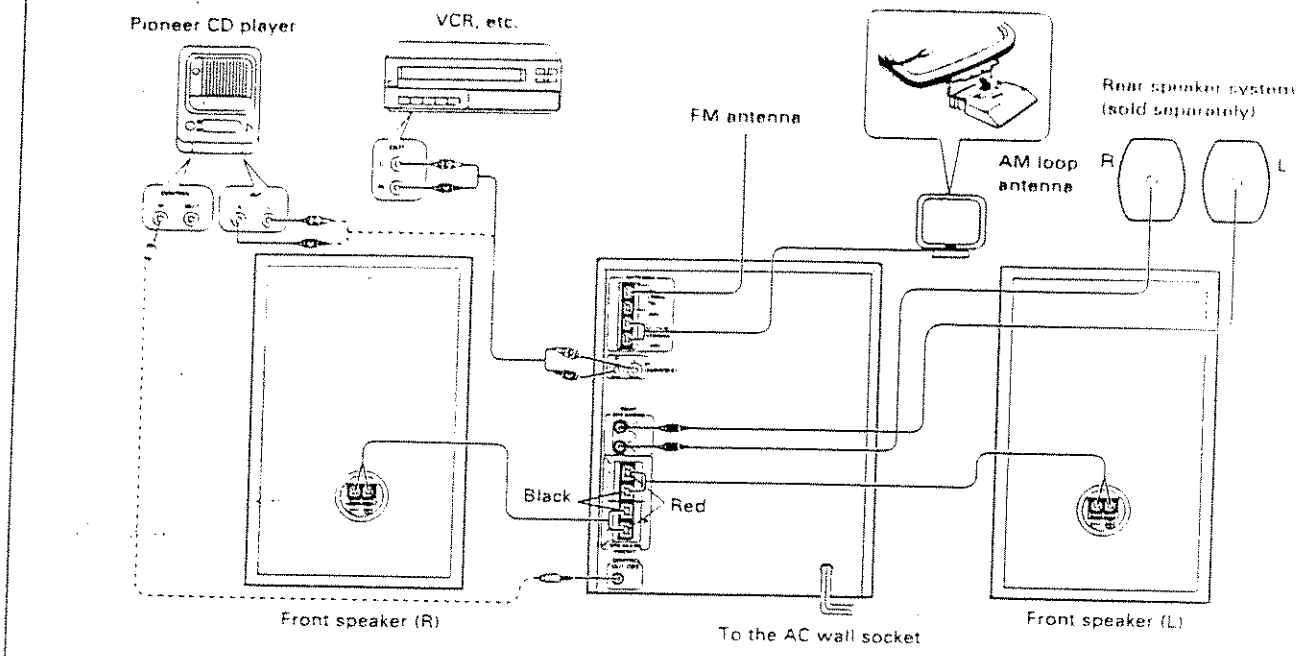
The remote control unit can be used within a range of approx 7 meters (23 feets) from the remote sensor, and within angles of up to approx. 30 degrees.

- If the remote control sensor window is in a position where it receives strong light such as sunlight or fluorescent light, control may not be possible.



CONNECTIONS

Illustration shows U.S. model.



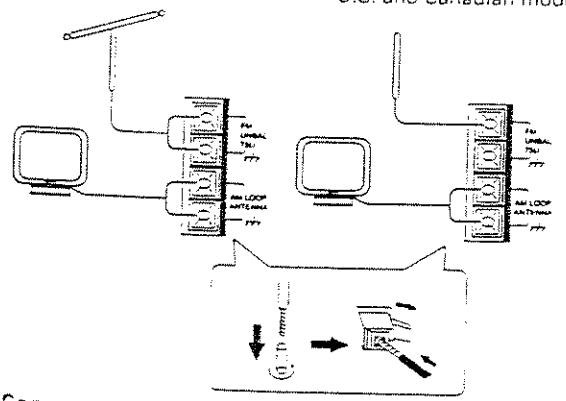
Before making or changing the connections, switch off the power switch and disconnect the power cord from the AC outlet.

- **Use this unit on a flat surface.**
- Be sure to connect an antenna. If you do not, broadcast signal reception will not be possible.

1. **Connect AM loop antenna and FM antenna to the unit's antenna terminals.**

Australian model

U.S. and Canadian models

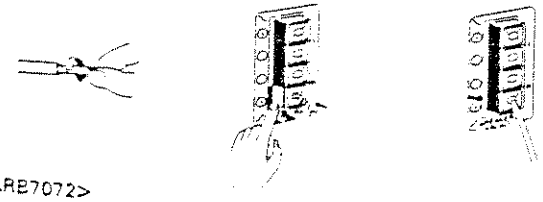


2. **Connect the speaker cords to the SPEAKERS terminal.**
Connect the "+" terminals on the CD cassette deck receiver to the "+" terminals on the speakers, the "–" terminals on the CD cassette deck receiver to the "–" terminals on the speakers.

① **Twist the wire strands.**

② **Push away the tab and insert the cord into the terminal.**

③ **Pull back the tab. Be sure to tighten the cords firmly.**

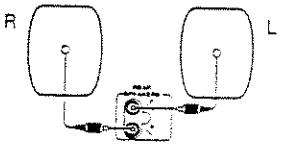


NOTE:
Do not allow the conductors of the cords to project out of the terminals or to come into contact with other conductors. A breakdown or failure may occur when conductors touch.

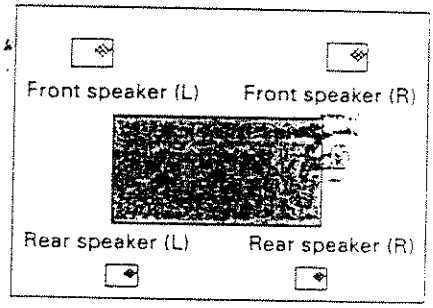
Speaker impedance
Connect speaker systems with a nominal impedance range from 8 Ω to 16 Ω.

Rear speaker system connection

- Connect the plugs properly.
- **U.S. and Canadian models:**
Use the separately sold speaker system S-P55.
Rear speaker equipped with standard RCA pin plugs and with nominal impedance of 24 Ω or more can be connected instead of S-P55.
- **Australian model:**
Use the speaker system equipped with standard RCA pin plugs and with nominal impedance of 16 Ω or more.



Rear speaker system installation example



When mounting rear speaker system on a wall

- Use the hole located on the rear panel of the speaker to mount it on a wall. Make sure the speakers will not drop when they are mounted on a wall.
- Check if the wall is strong enough to hang the speakers on it. PIONEER disclaims the responsibility for damages due to dropping of the speakers and other accidents, which are caused by inappropriate strength of the wall or improper installation.
- No screws or other fittings are supplied to mount the speaker on the wall.

Precaution for the S-P760V and S-P460V

Do not connect to any amplifier other than the one supplied with this system. Connection to any other amplifier may in rare cases result in smoke or fire.

This speaker system is magnetically shielded.
However, depending on the installation location, color distortion may occur if the speaker system is installed extremely close to the screen of a television set.
If this happens case, turn the power switch of the television set OFF, and turn it ON after 15 to 30 minutes.
If the problem persists, place the speaker system away from the television set.

3. **When using a VCR, connect the output cord to the AUX/CD II input jacks.**
4. **You can connect this unit to a Pioneer CD player equipped with a control jack.**
   For more details, refer to page 28.
5. **Finally, plug the power cord into the AC wall outlet.**

NOTE:

Insert the plugs securely into the jacks. Improper connection can lead to sound distortion or malfunction.

ANTENNA CONNECTIONS

Radio reception is not possible unless the antenna is properly connected.

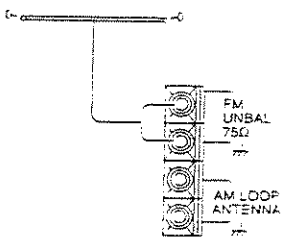
The strength of broadcast signals varies from one area to another. Signal propagation is especially poor in metropolitan areas, where there are many tall buildings and in mountainous areas. Proper antenna installation is vital to good reception.

FM ANTENNA

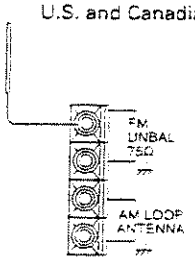
FM antenna

Stretch the antenna and affix it to a wall, etc.

Australian model

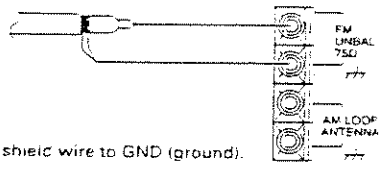


U.S. and Canadian models



External FM antenna installation

Use an external antenna when the signals from the stations are weak and cannot be picked up by the accessory FM antenna, or when the sound heard is accompanied by too much noise. Connect a 75 Ω coaxial cable.



Connect the shield wire to GND (ground).

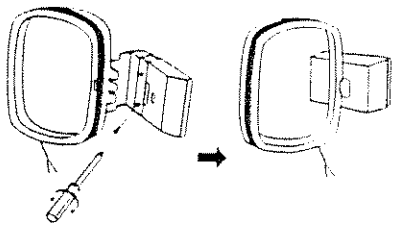
AM ANTENNA

The antenna should be placed at a distance from the unit, and should not be allowed to touch metallic objects. Avoid placing it near CD players, personal computers, television sets and other devices generating radio frequencies.

- Place the antenna on a level surface and rotate it to find the orientation that yields the best reception.

To attach the antenna to a wall, etc.

1. Select the place that yields the best reception.
2. Screw the leg to the wall, etc.
3. Insert the claw on the bottom of the antenna into the groove on the leg.



External AM antenna

Indoor AM antenna

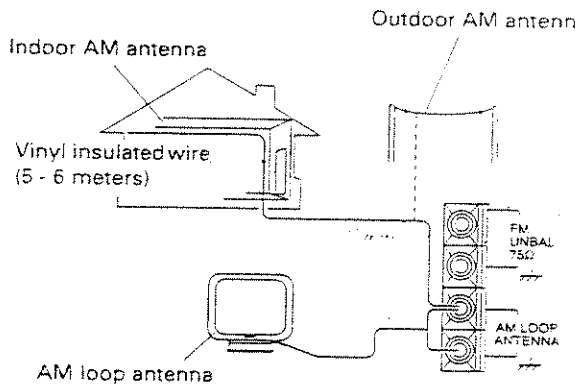
Provide a vinyl-coated wire (5 to 6 meters long). Secure one end to the AM terminal and the other end to a wall or other high location.

Outdoor AM antenna

If reception is still poor even when a lead antenna has been fully extended indoors, stretch out a vinyl-coated wire and secure it outdoors.

NOTE:

Do not detach the AM loop antenna when using the external AM antenna.



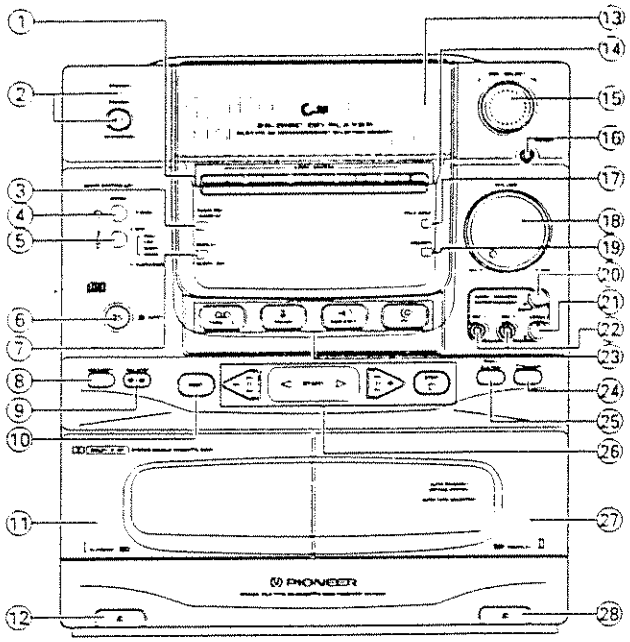
The ⏚ (signal earth) helps reduce noise when an antenna is connected. It is not a safety earth.

When moving the unit

Remove all the discs, and then unplug the power cord from the wall socket about 10 seconds after a CD has stopped playing.

- Leaving discs in the rack when you move it may result in damage.
- When packing the unit or removing it from its box, be sure not to touch the front.

FRONT PANEL FACILITIES



The illustration shows an Australian model.

① 5-DISC ACCESS button

② POWER STANDBY/ON switch and STANDBY indicator
This is the switch for electric power.
ON : When set to the ON position, power is supplied and the unit becomes operational.
STANDBY : When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness. (The STANDBY indicator lights.)

③ TIMER REC/WAKE-UP button

④ P.BASS (DEMO) button

⑤ SFC/KARAOKE button
Each time this button is pressed, the mode changes in the following sequence:

HALL → LIVE → DISCO → MOVIE → KARAOKE → off → HALL

NOTE:
If KARAOKE is selected, the vocal part in songs is muted and only the instrumental accompaniment (backup) is played.

⑥ 25 EJECT button

⑦ DISPLAY/CLOCK ADJ button

⑧ ASES/COPY button

⑨ REC/STOP button (●/■)

⑩ BEST button

⑪ TAPE I cassette door

⑫ TAPE I Eject button (▲)

⑬ Hood

⑭ Door panel

⑮ DISC SELECT knob

⑯ Headphones jack (PHONES)

⑰ TITLE INPUT button

⑱ VOLUME control

⑲ MEMORY button

⑳ ECHO level control (Australian model only)

㉑ Microphone level (LEVEL) (Australian model)
Microphone level (MIC LEVEL) (U.S. and Canadian models)

㉒ Microphone jack 1, 2 (MIC 1, 2) (Australian model)
Microphone jack (MIC) (U.S. and Canadian models)

㉓ Function buttons

㉔ Dolby* NR ON/OFF button
Each time this button is pressed, the Dolby NR system turns on and off.

㉕ FREQ/STATION button

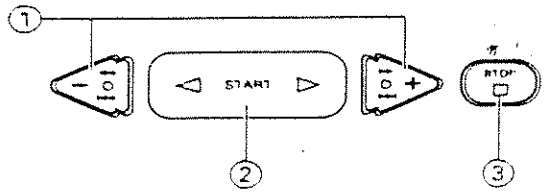
㉖ Common operation button section (Refer to page 9)

㉗ TAPE II cassette door

㉘ TAPE II Eject button (▲)

- *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.*
- *"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.*

Common operation button section



① ◁, ▷ buttons

② START button (◄ ►)

③ STOP button (■)

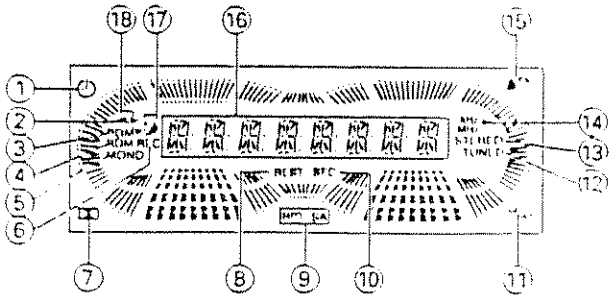
- Roles of the common operation buttons (The roles of the buttons vary depending on the input functions as shown below.)

During CD input
START : Play/pause button
STOP : Stop button
▷ : Fast forward/track search button
◁ : Fast reverse/track search button

During cassette deck input
START : Play button/Tape transport direction
STOP : Stop button
▷ : Fast forward button
◁ : Rewind button

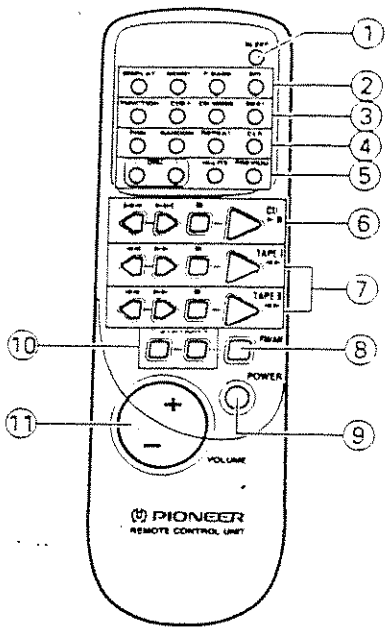
During tuner operation
▷ : Frequency Up button
◁ : Frequency Down button

Display



① Lights when setting the timer.
② Lights when setting the Beat Cut function.
③ Lights when you press the PGM button.
④ Lights when you press the RANDOM button.
⑤ Lights when you press the MONO button.
⑥ Lights during recording and timer recording operation.
⑦ Lights when Dolby NR is ON.
⑧ Flashes during Best Selection setting, and lights during play.
⑨ RPT : Lights during repeat play.
S : Lights during SINGLE mode operation.
A : Lights during ALL mode operation.
⑩ Lights during SFC mode operation.
⑪ Lights during KARAOKE mode operation.
⑫ Lights during radio broadcast reception.
⑬ Lights during FM stereo reception.
⑭ Lights during CD play.
(Flashes in pause mode.)
⑮ Lights when you press the P.BASS button.
⑯ Indicates frequency and major operation status.
⑰ Lights during sleep timer operation.
⑱ Lights to show TAPE II tape direction.

REMOTE CONTROL UNIT



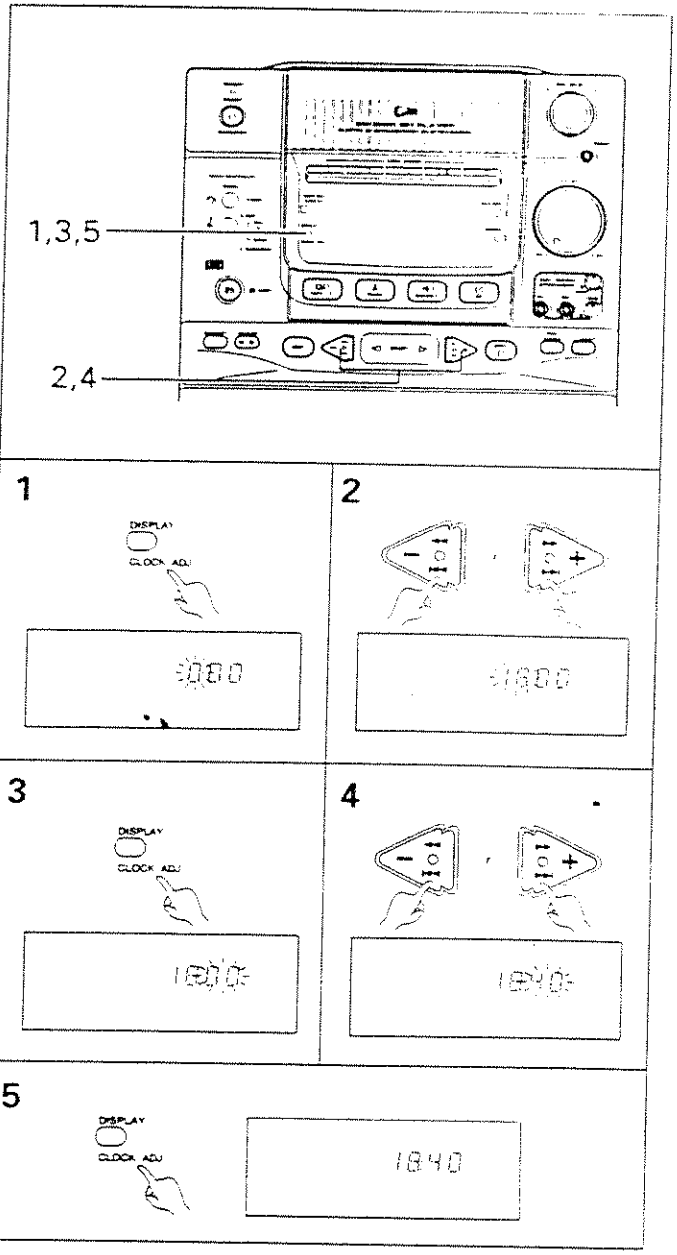
① SLEEP button
② SFC : SFC button
P.BASS : P.BASS button
MONO : MONO button
DISPLAY : DISPLAY button
③ BEST : BEST button
CD MODE : CD MODE button
CD II ► : CD II play button
(Refer to page 28 for details.)
FUNCTION : FUNCTION button
Each time this button is pressed, the function changes in the following sequence:

CD → TAPE I/II → FM/AM ← AUX/CD II

④ CLR : Clear button
REPEAT : REPEAT button
RANDOM : RANDOM button
PGM : Program button
⑤ PREVIOUS : PREVIOUS button
HI-LITE : HI-LITE button
–DISC+ : DISC (–, +) buttons
⑥ CD operation buttons
(Play/Pause ►/II, Stop ■, Track search ⏮ ⏭)
⑦ TAPE I, II operation buttons
(Play ◄ ►, Stop ■, Fast ◄◄ ►►)
⑧ FM/AM band button
⑨ POWER button
⑩ STATION – (down), + (up) buttons
Before operation, memorize broadcast stations with the STATION –, + buttons.
+ ..... Stations change in order in the upward direction.
– ..... Stations change in order in the downward direction.
⑪ VOLUME + (up), – (down) button
Increases/decreases the sound volume of the unit.

SETTING THE CLOCK

- Set the clock when it has been incorrectly set or when power has been cut to the unit.
- This clock provides a 24 hour display.
- The clock cannot be set by the remote control unit.
- **Example : Setting the clock to 18:40**



1. Turn the power switch off and keep pressing the DISPLAY/CLOCK ADJ button for more than 5 seconds.
2. Set the hour by pressing the ◁ or ▷ button.
3. Press the DISPLAY/CLOCK ADJ button.
4. Set the minutes by pressing the ◁ or ▷ button.
5. Press the DISPLAY/CLOCK ADJ button, when "00" seconds of that minute are reached for precise adjustment.

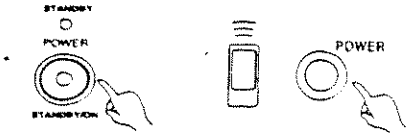
- After connecting to an AC outlet, be sure to set the present time. Timer playback and timer recording are not possible unless the time has been set.

TURNING ON THE POWER

Operations indicated by the [ ] mark are performed with the remote control unit.

- Read "CONNECTIONS" again and ensure that speakers, antenna, etc., are connected properly.

Press the POWER switch.

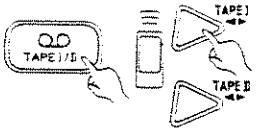
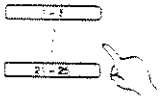
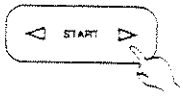


To switch the power OFF:

Press the POWER switch again.
The clock display reappears and the STANDBY indicator lights.
You cannot see the clock display in the U.S. model.
Press the DISPLAY/CLOCK ADJ button to see the clock display.

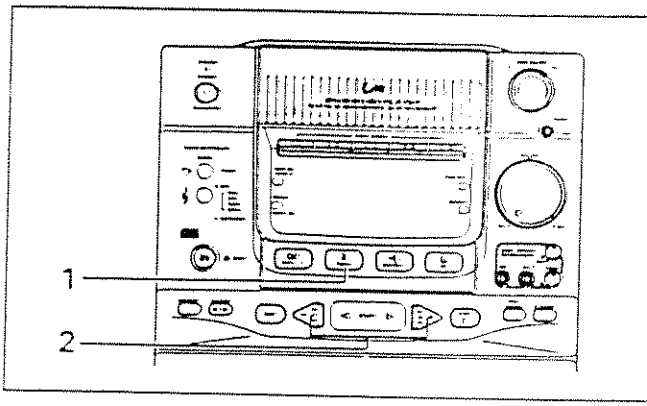
Turning power ON without using the POWER switch

Performing any of the following operations while the system power is off (STANDBY) turns the power ON.

	If a CD has been loaded, it starts to play.
	The tuner (radio) input is selected.
	If a cassette tape has been loaded, it starts to play.
	If the connected component is operating, it starts to play.
	Play starts if there is a CD in the selected 5-disc access.
	The function which has been selected before the last time the power was switched off is selected and the corresponding operation starts.

TUNING INTO STATIONS

- Be sure to connect the antennas.
- Do not place the AM antenna on a metallic case including t receiver cabinet or near a CD player, LD player, DAT record personal computer or TV set. Any of these installations w cause noise in reception.



1. **Press the tuner (FM/AM) function button.**
   Select the FM or AM broadcasting band.
   Each time you press this button, FM and AM changes alternatel
   → FM → AM →
2. **Tune in the desired station by pressing the ◁ or ▷ buttor**

• Manual tuning
Tap the ◁ or ▷ button in quick repetitions.

• Auto tuning
Press the ◁ or ▷ button for a second or two and remove you finger from it when the frequency starts to change.
→The frequency changes automatically. When a station is received the frequency stops changing and "TUNED" appears on the display.

• High-speed manual tuning
Press and hold the ◁ or ▷ button.
→The frequency changes continuously and stops when you finger is removed from the button.

MONO button (Remote control unit only)

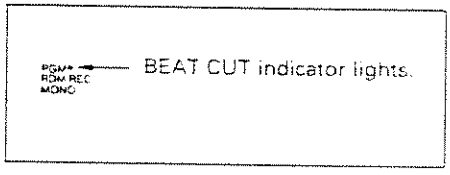
During FM reception: Switches between stereo and monaural modes when listening to a stereo broadcast. If there is a lot of noise in the stereo position, switch to MONO, and the noise will be suppressed.

Beat cut function

If noise occurs during recording an AM broadcast, perform the following procedures to reduce the noise.

1. **Press the POWER switch on this unit so that the STANDBY indicator lights up.**
2. **Turn on the power while pressing the MEMORY button. (The BEAT CUT indicator lights to the right of the PGM mark on the display.)**

- To cancel the BEAT CUT function, repeat steps 1 and 2.

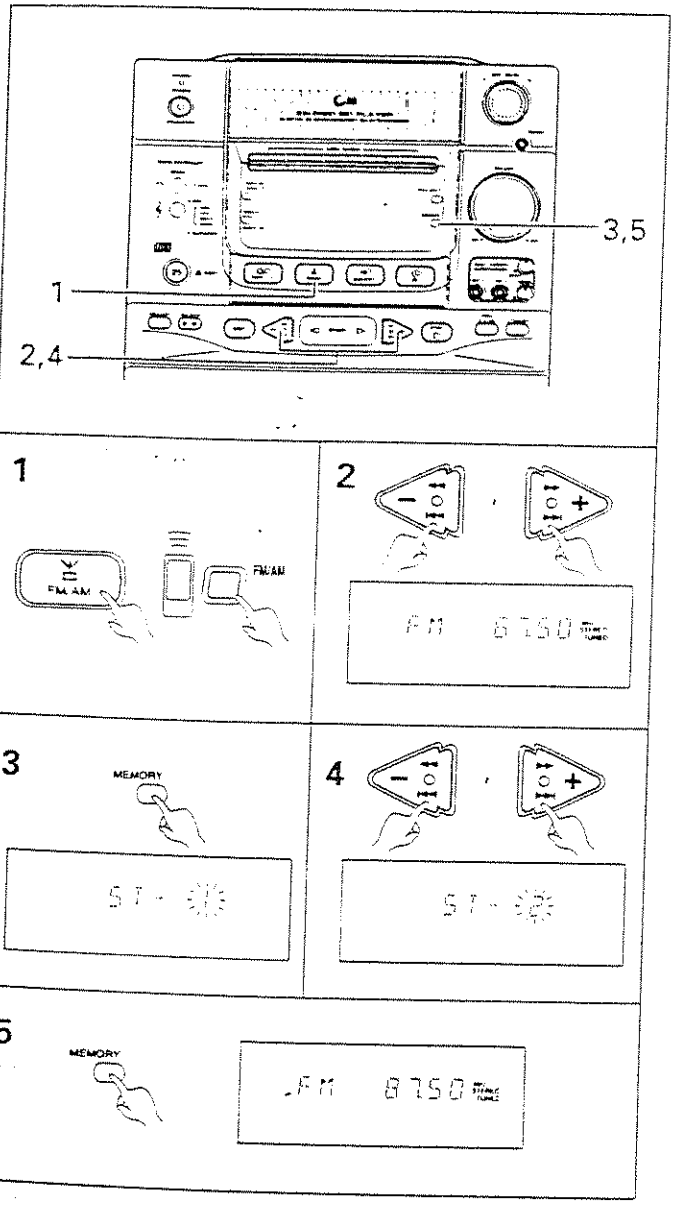


MEMORIZING STATIONS

Manual presetting

- Up to 24 FM/AM stations can be memorized at random.

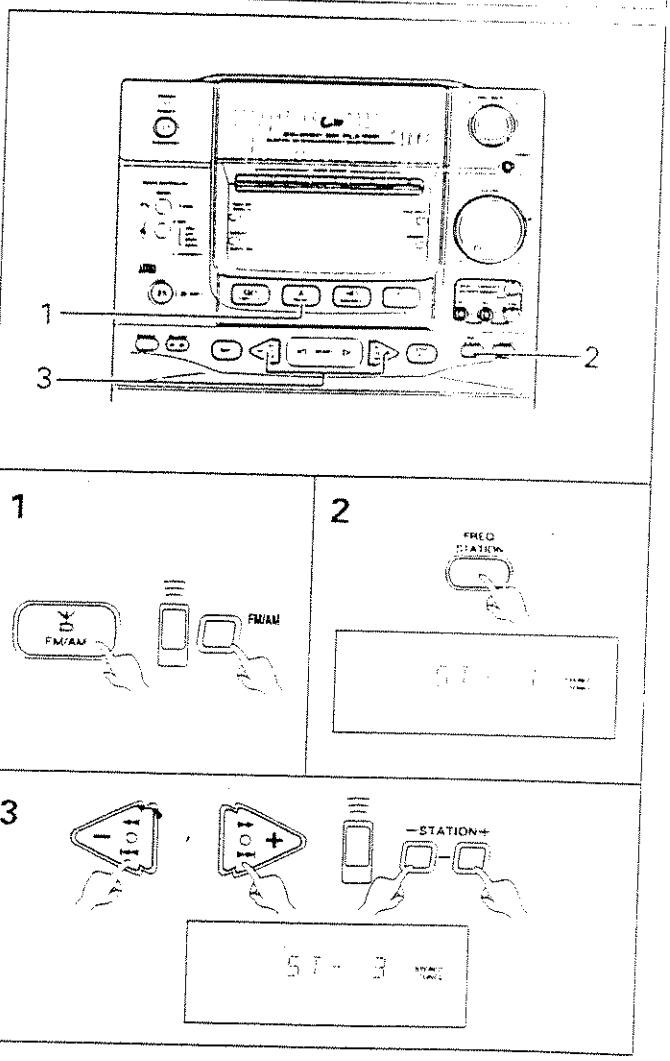
Example : To memorize FM 87.50 MHz as preset station 2.



1. **Press the tuner (FM/AM) function button.**
2. **Tune into a desired broadcast station using the ◁ or ▷ button.**
   The ON/OFF setting of MONO button can also be memorized for each station set.
3. **Press the MEMORY button.**
4. **Select the station number to be memorized by pressing the ◁ or ▷ button.**
5. **Press the MEMORY button.**

NOTE:
If you memorize a station using a station number that already has a station assigned to it, the previous station is erased and the new one memorized.

Station call



1. **Press the tuner (FM/AM) function button.**
2. **Press the FREQ/STATION button to change the display to the station mode.**
   Each time you press the button alternately, the frequency and station mode changes as follows:

   Frequency ⟶ Station mode

   If you do not press a button within three seconds, you return to the Frequency mode.
3. **Press the ◁ or ▷ button to select the desired station.**

NOTES:
- *The memorized stations will not be erased even if the power is turned off. However, if the AC power cord is unplugged or a power failure occurs, the memorized stations will be erased. (If the AC power cord is unplugged, the memorized stations will be retained for several days.)*
- *If the memorized stations have been erased, memorize them again.*

CAUTIONS REGARDING COMPACT DISC HANDLING

CARE OF DISCS

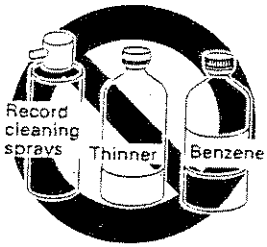
- When holding discs, do not touch their signal surfaces.
- Do not affix gummed labels or tape to the label surfaces. Also, do not scratch or damage the disc.
- Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.
- Never rub the disc surface with force.

STORING DISCS

- Always store discs in their cases vertically, avoiding locations with high heat or humidity, or extremely low temperatures.
- Always read and abide by the precautionary notes listed on the disc labels.

CLEANING DISCS

- Fingerprints or smudges on the surface of a disc will not directly affect the recorded signals. Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer periphery.
- If a disc becomes very dirty, dip a soft cloth in water, and after wringing it out well, wipe the dirt away gently. Remove any water drops with another soft, dry cloth.
- Do not use record cleaning sprays or anti-static agents on discs. Never clean discs with benzene, thinner, or other volatile solvents, since damage to the disc surface may result.



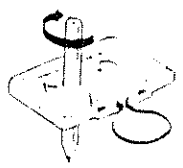
CD LENS CLEANER

The player's pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, consult your nearest PIONEER authorized service center. Lens cleaners for CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

HOW TO HANDLE CASSETTE TAPES

Is the tape loose, or is some of the tape sticking ou the cassette?

This will damage the tape itself. To remove the slack, insert a pencil into the spool and gently wind it.



Safekeeping

Put the cassette tape back into its case and store it in a location not exposed to magnetic field, humidity, dust, or oil.

TIPS ON USING CASSETTE TAPES

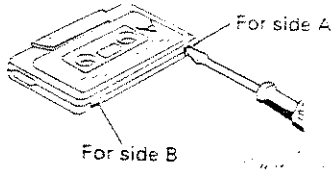
- Leader tape (which does not allow sound to be recorded o it) is provided at the beginning of a cassette tape. St recording after allowing the tape to run for approx. 5 secon so that the leader tape clears the recording head.
- Forwarding or reversing the cassette tapes before recordi prevents shock to the unit caused by slack.

Do not use tapes of more than 90 minutes.

Since tapes of more than 90 minutes are so thin, they easily jam in the pinch roller and capstan, and they are susceptible to other trouble such as irregular winding. Try not to use them with this unit.

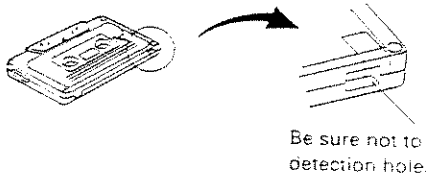
How can you prevent accidental erasure?

When the tab on the cassette shell is broken out with the tip a screwdriver, it will not be possible to activate the recordin function even by pressing the ●/■ button, so valuable recording will not be erased in error.



When you want to record again on a cassette with broken erasure prevention tabs, cover the hole with a double layer o adhesive tape.

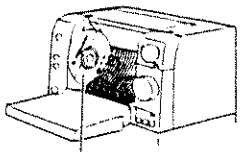
With TYPE II (HIGH/CrO_2) tape, be sure not to cover the tape-type detection holes.
If they are covered, the auto tape selector function will not operate correctly.



Be sure not to cover the tape-type detection holes.

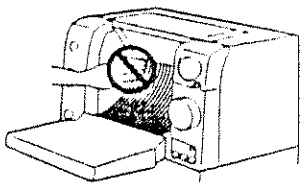
READ THIS BEFORE OPERATING THE CD PLAYER

- When loading a disc in the rack, **make sure the label side of the disc is on the right.**



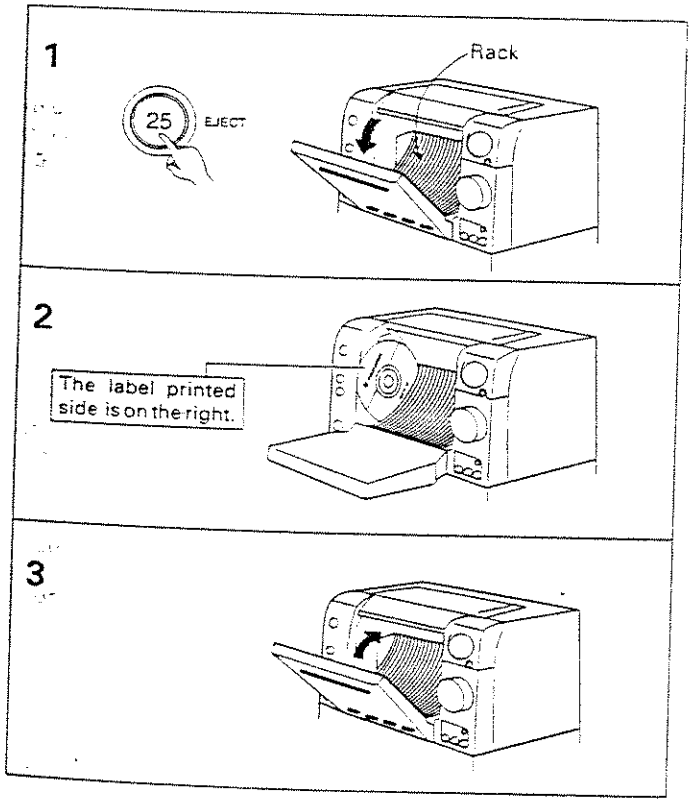
The label printed side is on the right.

- Do not apply unreasonable force when opening the door panel.
- Open and close the door panel slowly.
- After opening the door panel, do not place anything on it.
- You cannot operate the unit when the door panel is open. Close the door panel before operating.
- Do not place anything other than compact discs in the rack.
- Do not use an 8 cm (3-inch) CD adaptor.
- Place only one CD in each rack slot.
- **Never insert more than one disc at a time into one rack slot. This can scratch or damage the discs.**
- When closing the door panel, be careful not to catch your fingers in it.
  Never put your hand or any object inside the unit.



- If you load both 12 cm (5-inch) and 8 cm (3-inch) discs in the rack, exchanging 8 cm (3-inch) discs become more difficult. You are recommended to load 12 cm (5-inch) discs from the left, and 8 cm (3-inch) discs from the right.
- **Use this unit on a flat surface.**

LISTENING TO COMPACT DISCS



Before operating the player

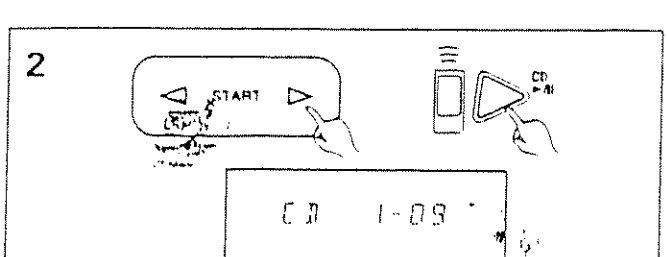
Loading discs in the rack inside the door panel
You can load up to 25 discs in the rack.
You can use the 5-DISC ACCESS buttons (▭ to ▭) as selection buttons for five blocks each with five discs.
Refer to Disc Title Memory, page 20, for details concerning memorizing 5-disc access.

1. **Press the 25 EJECT button (25).**
   When you open the door panel, make sure it is completely open by pulling with your hand.
2. **After confirming that the door panel is completely open, load discs with the label side on the right.**
3. **Close the door panel gently.**

To remove a disc, if a disc is playing, press the STOP button (■) continuously for 10 seconds (player operation completely stops), and then press the 25 EJECT button (25).

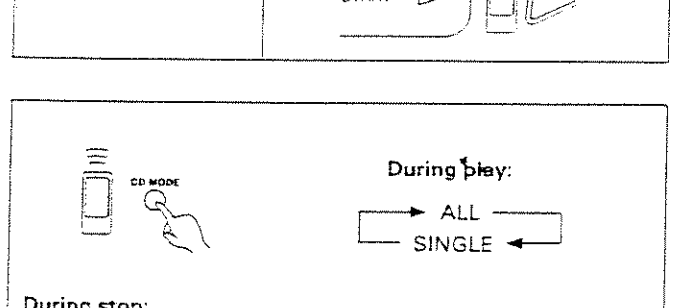
You cannot open the door panel when a disc is playing. Confirm that play has stopped before opening the door panel.

If the unit is not operating, simply press the 25 EJECT button (25).



TO STOP PLAYBACK

Function	Buttons
To stop playback	STOP
To stop playback temporarily	START, CD
To play back again	START, CD



Listening to tracks in order from the first track

1. **Load a disc in the rack, and close the door panel.**
2. **Press the START button.**
   Play starts from the first track of the most recently loaded

TO SEARCH FOR A PARTICULAR TRACK

Function	Buttons
To search for the beginning of a track	Press and release quickly
To rapidly advance forward or backward (Main unit only)	Keep pressed.

Select the disc play mode

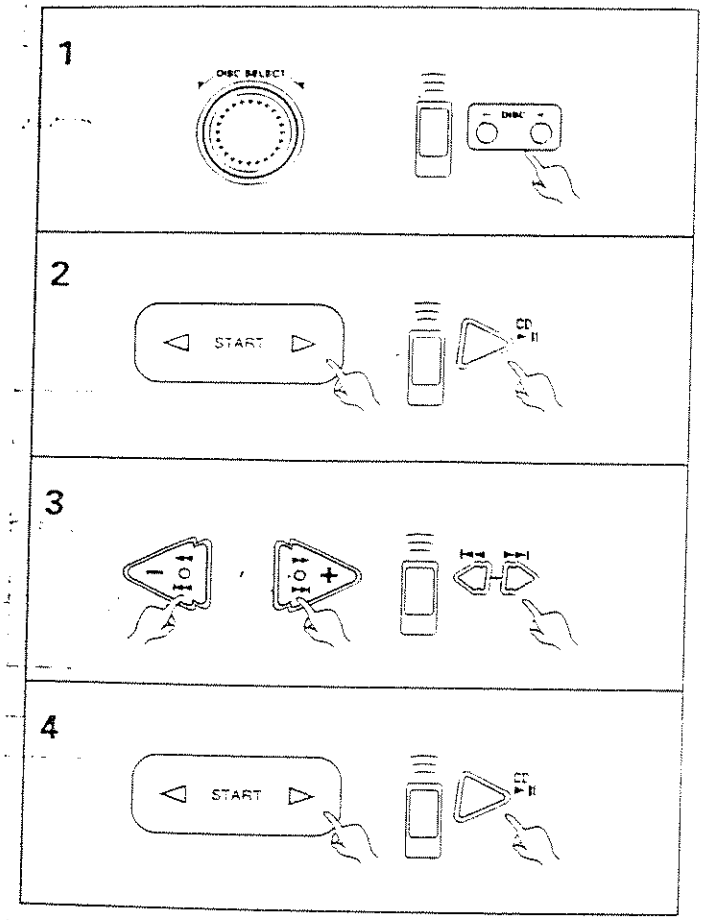
To select the play mode, press the CD MODE button on the rem control unit while the unit is stopped or in the play mode.

ALL : Plays all discs loaded.
SINGLE : Plays only one disc.
5-DISC ACCESS
(1–5 ~ 21–25) : Plays the selected discs in the 5-disc acc

Last Disc memory

- If you press the STOP ( ) button (or the Stop (■) button on remote control), or turn off the power, this unit memorizes disc that was playing. When you press the Start button again, t disc starts playing from the beginning.
- During normal play, if the single mode is selected, the single play mode will be set for the currently playing disc.
- If the CD MODE button is pressed when the unit is in the progr mode, the program contents will be canceled.
- Play starts from the disc number most recently selected in 5-DISC ACCESS mode.
- When the power is first turned on, play will begin from the mode selected previously.
- If no play mode has been selected, play begins by default in all disc mode.
- After Best Selection Memory play (Refer to page 16) has finish or after a program has been canceled, you return to the A mode.

CONVENIENT CD FUNCTIONS



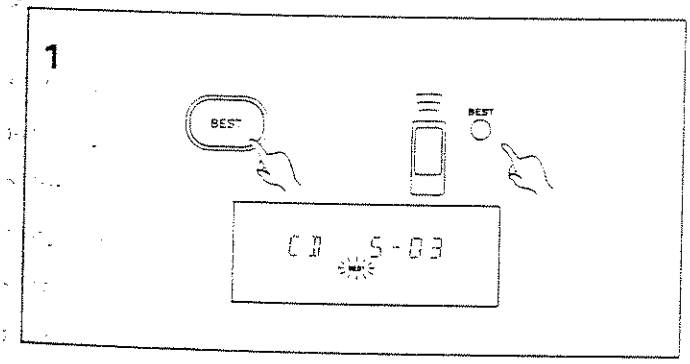
To play back desired tracks

- **Playing a desired disc (Disc Search)**
  Follow procedures 1 and 2 in order.

- **Playing desired tracks from a selected disc (Direct Track Selection)**
  Follow procedures 1, 3, and 4 in order.

1. **When the unit is not operating or when a disc is playing, turn the DISC SELECT knob to select the desired disc number.**
   - If you do this while a disc is playing, the selected disc starts playing automatically.
2. **Press the START button.**
   The selected disc starts playing from the first track.
3. **Select the desired track using the ◁ or ▷ button.**
   If you do this while a disc is playing, the selected track starts playing automatically.
4. **Press the START button.**
   The selected track starts playing.

   - You can select tracks from discs selected in the 5-DISC ACCESS mode.
   - Direct track selection is not possible during programmed play.



Best selection memory

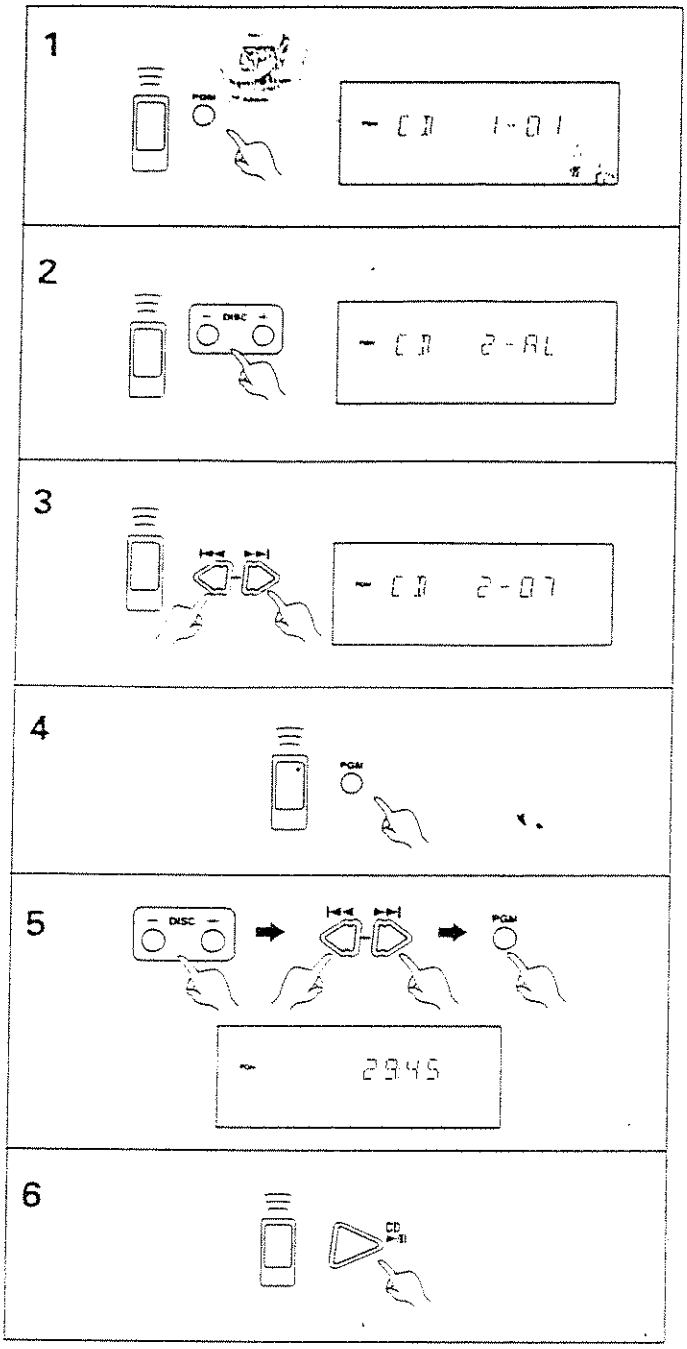
- You can memorize a desired track when it is playing by simply pressing the BEST button.
- You can memorize up to 25 tracks.

1. **Press the BEST button when a desired track is playing.**
   The disc number and track number are memorized.
2. **Repeat the procedure 1 to complete the best selection memory.**

To listen to a memorized track:
Press the BEST button when no disc is playing, and the last memorized track starts playing.

Clearing memory:
During Best Selection Memory play, press the CLEAR button. The track playing is cleared from memory.

- Best Selection Memory operation is not possible during Best Selection Memory play.
- A memorized track will remain in memory unless you disconnect the power cord.
- To memorize the 25th track, press the BEST button. The least recently memorized track is erased from memory, and the 25th track is memorized.



Programmed play

- You can create a program with up to 32 steps.
- Programs can be created by remote control.

Example:
When programming the 7th track on the 2nd disc for the 1st step, and the 3rd track on the 5th disc for the 2nd step.

1. Press the program (PGM) button when no disc is playing.
2. **Select a disc number with the DISC (–, +) button.**
3. **Select a track number using the** ⏮ or ⏭ **button.**
4. **Press the program (PGM) button.**
   Repeat procedures 3 and 4 to program other tracks on the same disc.
5. **Repeat procedures 2 to 4 until you have programmed all the desired tracks.**
6. **Press the Play/Pause (►/II) button.**
   Play of programmed tracks starts in order.

Disc All Program
Repeat programmed play procedures 1, 2, and 4 in order.
This programs all tracks on selected discs.

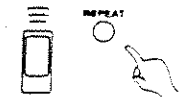
Canceling programmed play
During play, press the STOP button twice.
When no disc is playing, press the STOP button once.
(When no disc is playing, if you press the BEST button, PREVIOUS button, CD MODE or RANDOM button, programmed play is canceled.)

Clearing program steps
Press the remote control unit's CLR button during programming. Each time you press the button, the last programmed step is cleared.

When programming, each disc's TOC information is read, and the total play time of programmed tracks is calculated.
If you want to know how long the programmed play time is, wait for a while after procedure 5 and it is indicated in the display. (Max. 99 min. 59 sec.)
If you perform procedure 6, open the hood or turn the power off before calculation has finished, calculation is not performed.

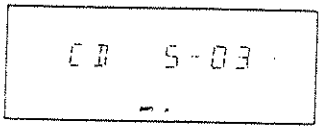
To repeat playback (Repeat play)

- This repeats play of the discs set for a selected play mode.
- Select Repeat Play by remote control.

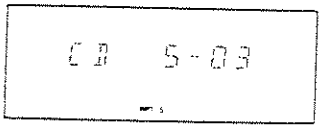


Press the REPEAT button while a disc is playing.
Play of discs set for the selected play mode is repeated.

ALL Disc Repeat : Press the REPEAT button during All mode play.
Play of all tracks on all discs (1 to 25) is repeated.

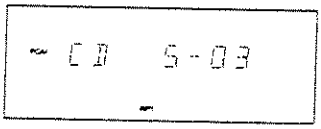


SINGLE Repeat : Press the REPEAT button during Single mode play.
Play of all tracks on one selected disc is repeated.



5-DISC ACCESS Repeat : Press the REPEAT button during 5-DISC ACCESS mode play.
Play of All tracks on selected discs is repeated.

PROGRAM Repeat : Press the REPEAT button during programmed play.
Play of all programmed tracks is repeated.

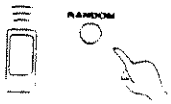


Best Selection Repeat : Press the REPEAT button during Best Selection Memory play.
Play of all songs memorized in Best Memory is repeated.

To cancel repeat play:
Press the REPEAT button.
- When repeating only one track, program the desired track, and press the REPEAT button.

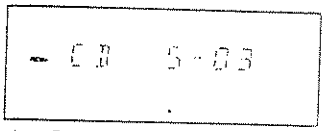
Random play

- Depending on the playback mode, the tracks on the loaded disc will be played back in random order (once each). When all tracks on the disc have been played back, the player will stop.
- Select Random Play by remote control.
- Random play of up to 25 tracks is possible.

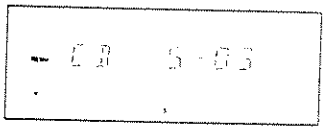


: Press the RANDOM button during play or when no disc is playing.
Random play of tracks set for each play mode begins.

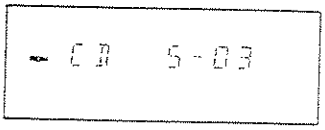
ALL Random : Press the RANDOM button during All mode play.
A total of 25 tracks from all the discs are played at random.



SINGLE Random : Press the RANDOM button during Single mode play.
Tracks from a single disc are played at random.



5-DISC ACCESS Random : Press the RANDOM button during 5-DISC ACCESS mode play.
Up to 25 tracks from selected discs are played at random.



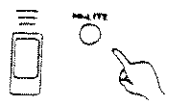
If you press the REPEAT button during Random play, tracks are played at random.

To cancel random play:
Press the STOP (■) button.
Random play is canceled, and play stops.
- When you press the DISC (–, +) buttons, random play is canceled, and normal play resumes.

NOTES:
- *A programmed selection of tracks (program play) cannot be played in random order. (If the RANDOM button is pressed during program play, the program will be canceled and the ALL mode random play will start.)*
- *If less than twenty-five discs are loaded in the ALL mode, or in the 5-DISC ACCESS mode, the same track may be played more than once.*

Fast track search (Hi-Lite Scan)

- A passage about 10 seconds long starting from one minute into each track on discs set for a selected play mode is played.
- Select Hi-Lite Scan by remote control.



Press the HI-LITE button, and a passage about 10 seconds, starting from one minute into each track on each of the discs set for a selected play mode is played.

Disc Hi-Lite Scan : Press the HI-LITE button when no disc is playing.
A passage about 10 seconds, starting from one minute into the first track on each disc is played, starting from the first disc.
Disc Hi-Lite Scan stops when all the discs have been scanned.

Track Hi-Lite Scan : When no disc is playing, if you press the HI-LITE button twice, a section from each track on each loaded disc is played for about 10 seconds, starting from one minute into each track. Track Hi-Lite scan stops when all the tracks have been scanned.

Program Hi-Lite Scan : Press the HI-LITE button during program mode.
A passage about 10 seconds, starting from one minute into each of the programmed tracks is played.

Best Selection Memory Scan
: Press the HI-LITE button during Best Selection Memory play.
A passage about 10 seconds long starting from one minute into each of the Best Selection tracks is scanned.

- If you press the START button when scanning a track you want to listen to, Hi-Lite scan is canceled and regular play of that track resumes.

To cancel scanning :
Press the Stop button.

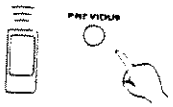
- Each time you press the HI-LITE button, scanning switches between disc scan and track scan.
- During track scan, you can skip tracks using the ⏮, ⏭ buttons.

NOTE
With tracks that are shorter than one minute or shorter than the desired time you have set, a passage about 10 seconds starting from the beginning of the track is played. If a track is shorter than ten seconds, the entire track is scanned from start to finish.

Previous disc scan

- Disc HI-LITE scan is performed in the most recently listene order.
- 25 discs are memorized.
- With more than 25 discs, the old order is erased.

Example:
When the disc play order was 1st disc, 2nd disc, 9th disc, disc, and 13th disc.



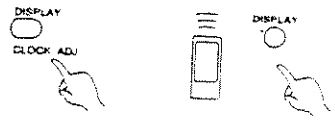
Press the PREVIOUS button during p

A passage about 10 seconds, start from one minute into the first track each disc is played, starting from 13th disc followed by the 12th, 9th, 2 and 1st discs in order (the order in wh they were most recently listened to).

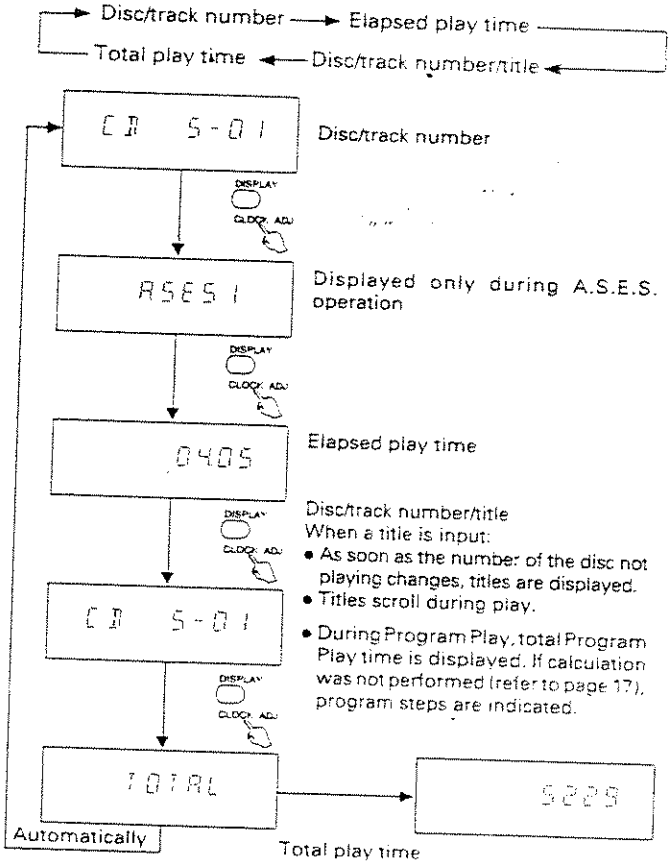
- Press the START button when you hear a disc you want to listen Previous Disc Scan is canceled, and normal play resumes.

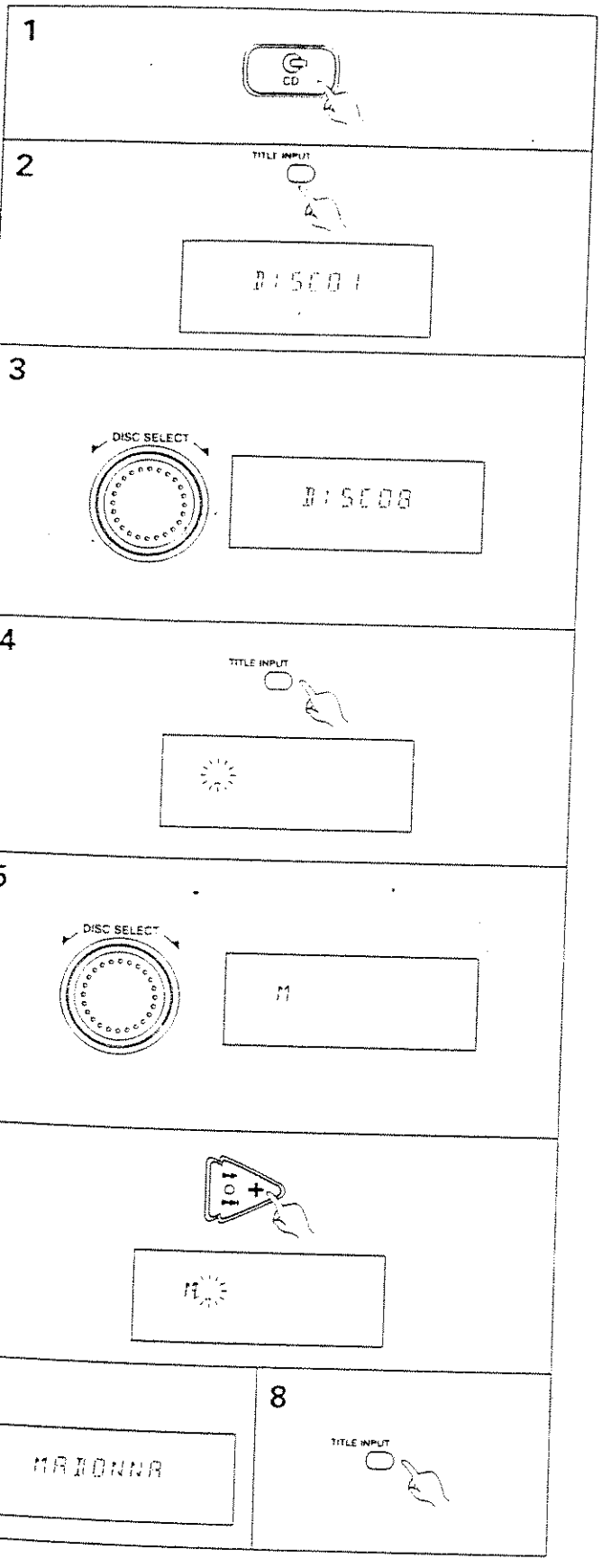
To cancel Previous Disc Scan:
Press the STOP button.
- Discs played in Random, Hi-Lite Scan, Program, and Be Memory modes are not scanned during Previous Disc Sca

Changing the display



The display changes each time you press the button.


Disc/track number
Elapsed play time
Total play time
Disc/track number/title
C 3 5-01
Disc/track number
DISPLAY
CLOCK ADJ
RSES 1
Displayed only during A.S.E.S. operation
0405
Elapsed play time
Disc/track number/title
When a title is input:
• As soon as the number of the disc not playing changes, titles are displayed.
• Titles scroll during play.
• During Program Play, total Program Play time is displayed. If calculation was not performed (refer to page 17), program steps are indicated.
TOTAL
5225
Automatically
Total play time



Disc title memory

- In the display section, you can register disc titles by genre, ar name, or other name as desired using up to eight characters.
- Refer to page 19 concerning how to change the display inp
- Characters that can be input
  Letters : A to Z
  Numbers : 0 to 9
  Symbols : □ (space), -, +, /, <, >, *, #

Example : When inputting MADONNA as the title for the 8th dis

1. Press the CD function button.
2. Press the TITLE INPUT button.
3. Turn the DISC SELECT knob to select the disc or 5-DIS ACCESS mode you want to title.
4. Press the TITLE INPUT button.
5. Turn the DISC SELECT knob to select the letter, number, c symbol you want to input.
6. Press the ▷ button to move the cursor to the right.
7. Repeat procedures 5 and 6.
8. Press the TITLE INPUT button to complete title input.

Title copying and clearing

- Copy
  You can copy a previously input title to another disc number.

1. When no disc is playing, turn the DISC SELECT knob to display the title you want to copy.
2. Perform procedures 2 to 4 in order as above.
   After performing procedure 4, the title is input, so just press the TITLE INPUT button.

- Clearing
  You can clear a previously input title.

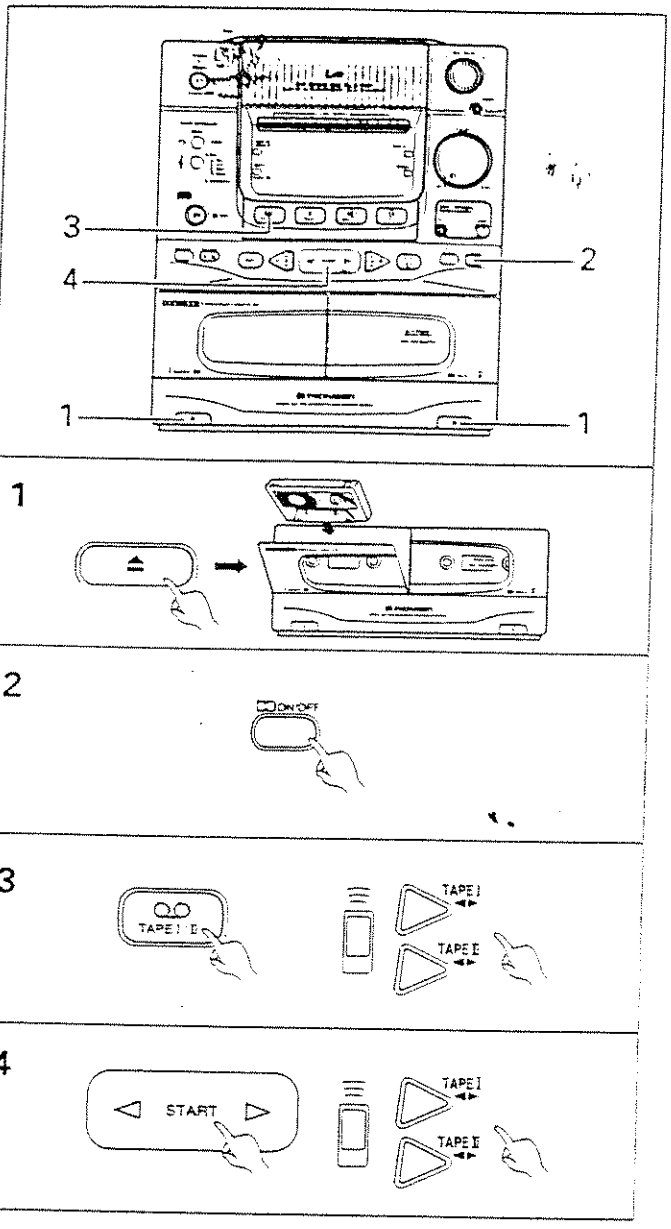
1. Perform procedures 2 to 4.
2. At procedure 4, the title is input. Press the STOP button (Pressing it again takes you back a step.)
3. Press the TITLE INPUT button.

- A maximum of 30 titles can be registered. (25 discs plus 5-DISC ACCESS)

Incomplete title

- If all eight characters are spaces, it is not considered a title, and is not recorded.

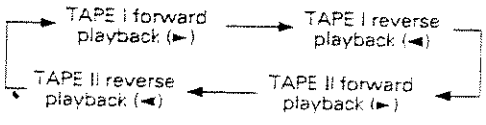
PLAYING TAPES



Basic operation

- Tapes used for playback may be either Type I (normal), Type II (High/CrO_2), or Type IV (Metal).
- Tapes may be played back in TAPE I or TAPE II but not in both decks at the same time.

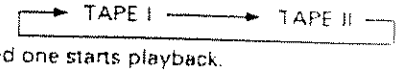
1. **Press the Eject button (▲) and load a recorded tape, then push in the cassette door until it locks.**
   For relay playback, load tapes into TAPE I and TAPE II. Relay playback is repeated as follows (32 sides maximum):



   If there is a tape in only one deck, that deck continuously plays both sides of the tape (16 sides maximum).

2. **Set DOLBY NR to the same position used for recording.**
   Tapes recorded using Dolby noise reduction should always be played back with the noise reduction system on.

3. **If tapes are loaded in both TAPE I and II, press the TAPE I/II (Function) button to select the tape to be played back first.**
   When a tape is loaded, the loaded deck will automatically be selected.
   Each press of the button alternates TAPE I and TAPE II as shown below:



   Selected one starts playback.

4. **Press the START button to switch the direction you want to start playback.**
   (Indicator shows you tape transport direction.)
   ► : Forward playback
   ◄ : Reverse playback

When you use the remote control unit, press the Play button (◄►) for the deck you choose to play (TAPE I or II).

To stop playback:
Press the STOP (■) button.

To fast forward or rewind, press ◁◁ or ▷▷ button while the tape is stopped.

Music search

During forward playback (►)
Press the ◁◁ button once to return to the beginning of the current track.
Press the ▷▷ button once to go to the beginning of the next track.

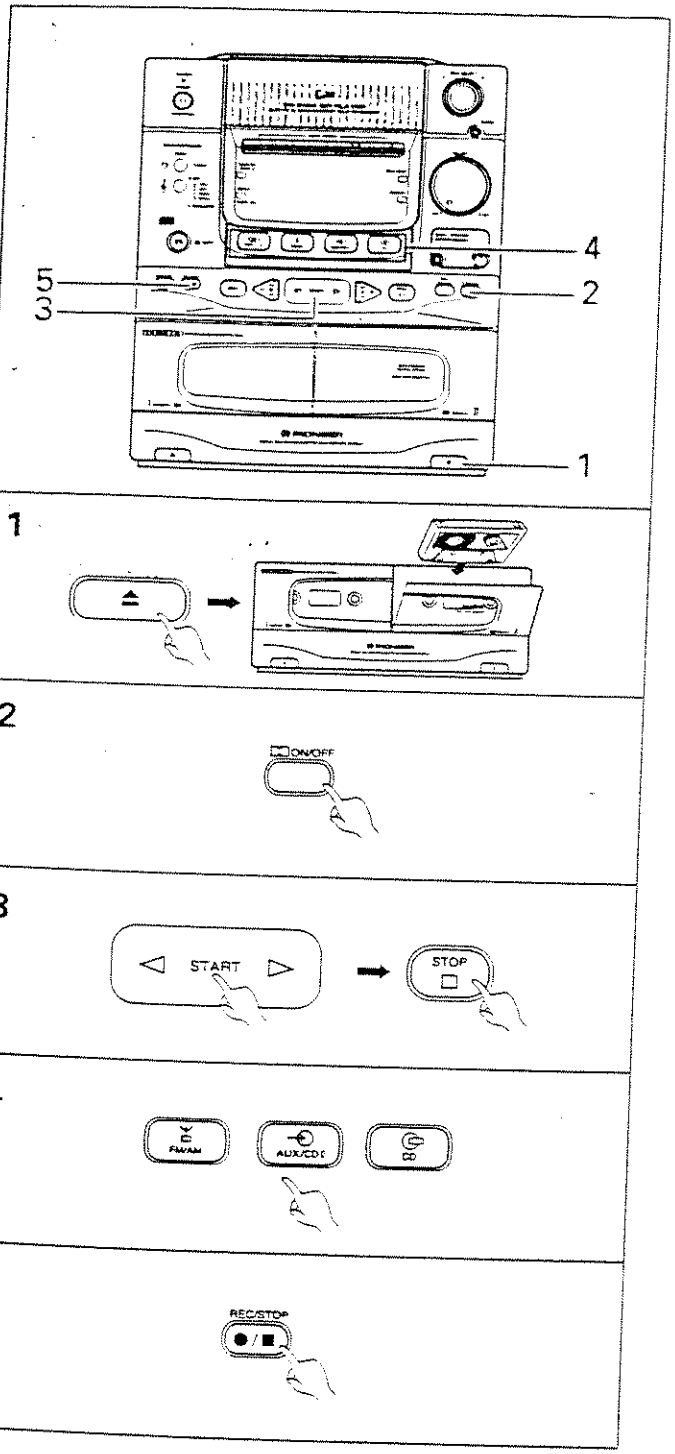
During reverse playback (◄)
Press the ▷▷ button once to return to the beginning of the current track.
Press the ◁◁ button once to go to the beginning of the next track.

NOTES:
Performing music search on the following types of tape may not be possible. This is not a unit malfunction, however.
- *A tape whose unrecorded portions between tracks are less than 4 seconds long.*
- *A tape with high noise level between tracks.*
- *A tape with low level or silent passages of several seconds in the same track, such as classical music.*
- *When the tape's sound is broken irregularly, as in recordings of speeches or dialogue.*
- *When a track is less than 30 seconds in length.*
- *When a tape has sound which continues at very low volume for more than 4 seconds.*

NOTES:
- *Do not press the Eject (▲) button while the tape is running.*
- *Confirm that the deck has stopped before pressing the Eject (▲) button.*

Auto Stop Mechanism
This mechanism automatically stops the tape when the end of the tape is reached during fast forward or reverse (◁◁ or ▷▷).

RECORDING



Recording on tape

- Tapes used for recording may be either Type I (normal) or Type II (High/CrO_2).

1. **Load a tape for recording into TAPE II.**
   - Wind the tape past its leader portion so that the magnetic surface is exposed.
   - Recording cannot be performed on a tape if the accidental erasure prevention tab has been broken out.
   - Insert the tape for recording and close the cassette door with your hand.
2. **Use the DOLBY NR ON/OFF button to select the desired noise reduction mode.**
   - Each time the button is pressed, the mode changes in the following order:

   → on → off →
3. **Press the START button, switch to the tape direction you want to record in, and press the STOP button.**
   ► : Recording on side A followed by recording on side B. When recording on side A (►), has finished, recording on side B (◄) automatically starts.
   ◄ : Recording on one side. Recording is performed in the reverse (◄) direction, so be sure to load the tape accordingly.
4. **Use the Function button to select the input source.**
   - For tape copying (recording from TAPE I to TAPE II), use the tape copy function.
5. **Press the REC/STOP button (●/■).**
   Recording starts, and the "REC" indicator lights.
   - Sounds of the One-touch Karaoke Function can also be recorded if desired (see page 25).

To cancel, press the REC/STOP button (●/■) or the Stop button on the remote control.

NOTES:

- *You cannot switch inputs during recording.*
- *This unit uses ALC (Auto Level Control) to automatically set recording level.*
- *During recording, Sound Field Control and P.Bass do not function. The SFC/KARAOKE button does not operate during recording either.*

Copying a tape

The contents of the tape in TAPE I can be copied onto the tape in TAPE II.

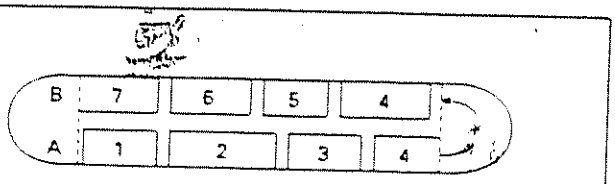
Tape copying should begin in the forward direction (►).

1. **Press the TAPE (I/II) function button of the main unit to select the cassette tape input function.**
   On the remote control unit, select the cassette deck input with the Function button.
2. **Load the recorded tape into TAPE I and the tape for recording into TAPE II.**
   - Wind the tape forward past the leader to the start of the magnetic coated portion.
   - The tape copy mode is canceled when the end of either of the tapes is reached, so it is advisable to use tapes of the same length.
3. **Press the ASES/COPY button.**
   The tape copy starts.

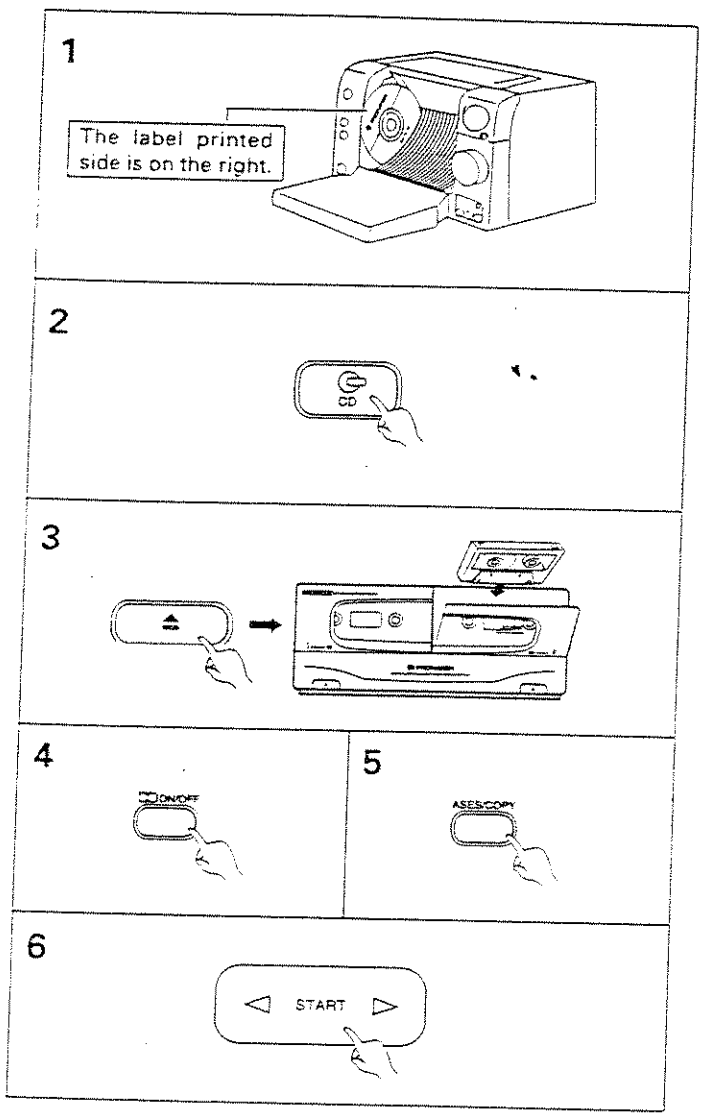
To stop copying:

Press the Stop button ■. (On the remote control unit, press the TAPE I or TAPE II stop (■) button.) Both decks will stop simultaneously.

- Regardless of the Dolby NR setup, the tape created by copying has exactly the same contents as the copy source tape.



A, B : Indicates the side of the tape.
1–7 : Indicates the number of the track.
• : Indicates the leader part of the tape.



A.S.E.S. (Auto Synchro Editing System)

■ **What is A.S.E.S.?**

- A.S.E.S. is a special function which automatically progra the recording of CD tracks, so that the track which is o partially recorded at the end of cassette side A is record again in full at the beginning of cassette side B.
- When the A.S.E.S. function is used, if the playback mo has been selected on the CD player, recording will performed in the sequence of the playback mode:

ALL : All discs recorded A.S.E.S.
SINGLE : Only the displayed disc is recorded A.S.E.
5-DISC ACCESS : The selected 5-DISC ACCESS group (1–5 21–25) is recorded A.S.E.S.
PROGRAM : The selected tracks only are recorded A.S.E.

- Two ASES modes are available ... ASES1 and ASES2. In the ASES1 mode, recording is performed in the order tracks on a disc, or in the programmed playback order. In th ASES2 mode, the first track on each disc is recorded in orde

1. **Load discs in the CD player.** (Refer to page 14.)
   - Select ALL, SINGLE or 5-DISC ACCESS with the CD MOD button on the remote control.
   - Use the program function to record tracks in a specific orde
   - When recording beginning with a specific disc, use the DIS SELECT knob to select the disc number.
   - **Never insert more than one disc at a time into one rack slot This can scratch or damage the discs.**
2. **Press the CD function button.**
   Play starts automatically, so be sure to press the STOP button
3. **Load a tape for recording into TAPE II.**
   - Recording is in the forward direction.
   - Wind the tape past its leader portion so that the magnetic surface is exposed. (Refer to page 13.)
4. **Set the DOLBY NR ON/OFF button to the desired noise reduction mode.**
5. **Press the ASES/COPY button.**
6. **After confirming that "ASES 1" is indicated in the display, press the START button (◄ ►).**
   A.S.E.S. starts.

After performing operation 5, use the ◁ or ▷ buttons to switch as follows.

ASES 1 → ASES 2 → ASES 1

When "ASES2" is displayed, if you perform operation 6, the first tracks only on each disc are recorded, and programs are canceled.

To cancel the A.S.E.S.:

Press the STOP button (■).

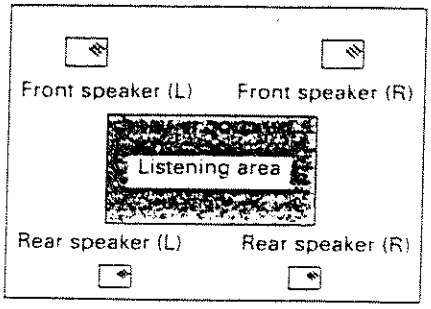
NOTES:

- *By setting the CD player for all-track repeat in one of the disc modes, you can record a tape fully without leaving any remainder (repeat A.S.E.S.).*
- *During use of the A.S.E.S. function, near the end of a tape the CD player may skip to the next track, or the CD may be interrupted after ending its play. In this case, record the remaining tracks manually, without use of the A.S.E.S. function.*

SOUND FIELD EFFECTS

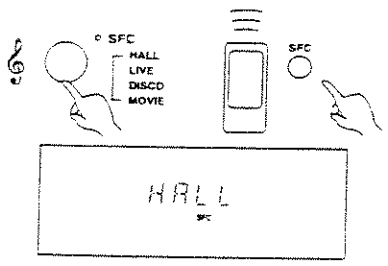
Before using this component's sound field effects, you should learn about the various sound field modes, and speaker installations and roles.

Rear speaker system installation example



L : Front speaker (Left)
R : Front speaker (Right)
S : Surround speakers (sold separately)
○ : Must be connected
◎ : More effective when connected

Mode		Sound field effect	Speakers		
			L	R	S
SFC	HALL	Produces the effect of an expansive concert hall with rich spatial breadth.	○	○	◎
	LIVE	Produces the effect of an exciting live concert atmosphere.	○	○	◎
	DISCO	Produces the effect of a discotheque with powerful bass rhythm.	○	○	◎
	MOVIE	Produces the effect of three-dimensional movie theater space, effective for use when watching video movies.	○	○	◎



Example: HALL is selected.

Selecting a preset sound setting

What is "sound field control (SFC)"?
This function allows you to select four different sound fields, each of which produces an effect similar to that heard in the respective location settings.

1. **Use the SFC/KARAOKE button to select the desired sound field.**
   Each time the button is pressed, the sound field changes in the following sequence:

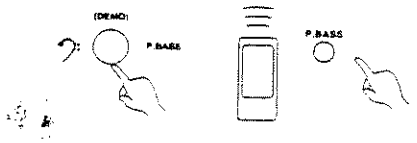
HALL → LIVE → DISCO → MOVIE → KARAOKE → off → HALL

With the remote control unit, each time the SFC button is pressed, the sound field changes in the following sequence:

HALL → LIVE → DISCO → MOVIE → off → HALL

To listen without any sound field control, set to OFF.
The sound field control is canceled.

Boosting the bass sound

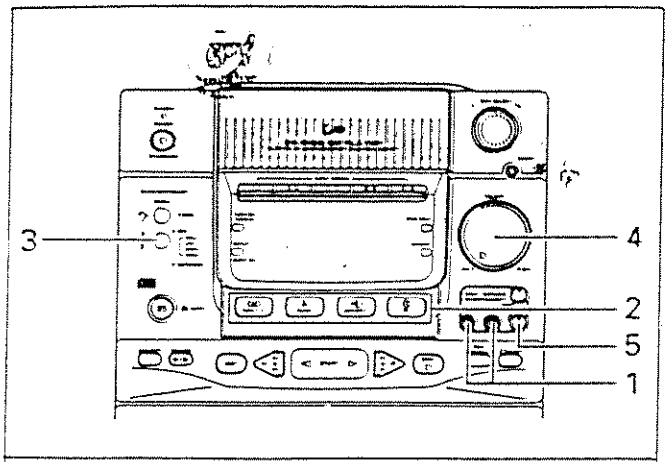


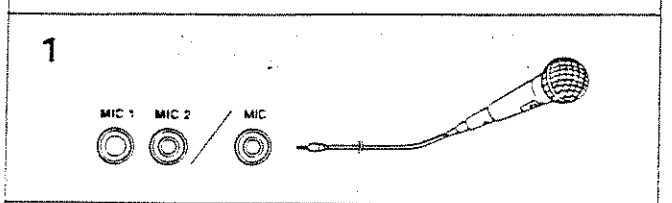
Each time the P.BASS button is pressed, the display changes in the following sequence:

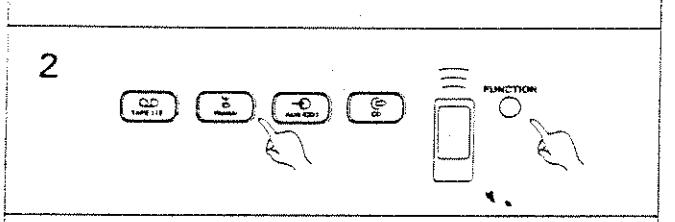
P.BASS 1 → P.BASS 2 → OFF → P.BASS 1

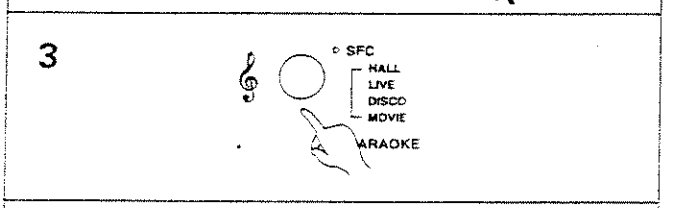
P.BASS1 : Enhanced bass
P.BASS2 : Further enhanced bass compared with P.BASS1.

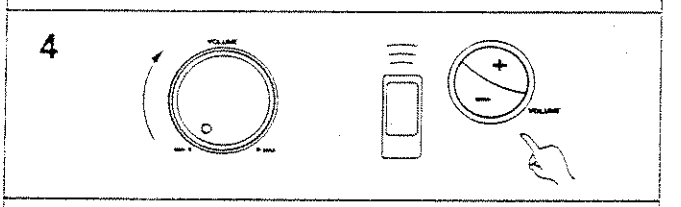
FUN WITH KARAOKE FUNCTIONS

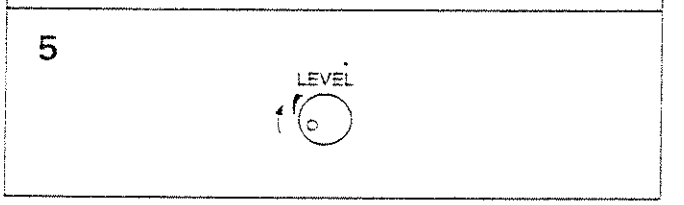












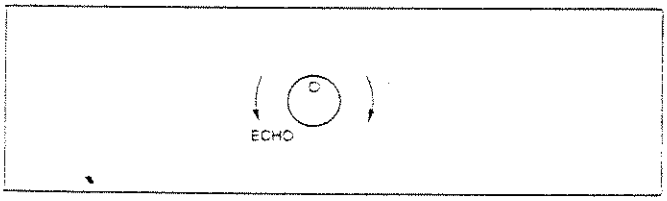
One-touch Karaoke Function

- The one-touch karaoke function is an electronic means allowin the reduction of vocal frequency bands of music sources (CD tape, FM/AM broadcasts), in this way, creating a simple form background accompaniment for karaoke sing-alongs when use in combination with a microphone.
(Note that this function reduces but does not entirely eliminat the vocal bands of music sources. Also, the function does no operate with monaural sources.)

1. **Attach a microphone to the Microphone jack** (MIC or MIC 1, 2)
The Microphone jack accepts microphones equipped with mini-plug (diameter 3.5 mm).
2. **Select the desired music source.**
3. **Switch to "KARAOKE" using the SFC/KARAOKE button.**
To cancel karaoke, switch to OFF with the SFC/KARAOKE button.
4. **Adjust the volume as desired.**
5. **Use the MIC LEVEL or LEVEL control to adjust the microphone sound volume.**
When KARAOKE is selected, P.BASS 1 will automatically be selected.

NOTES:

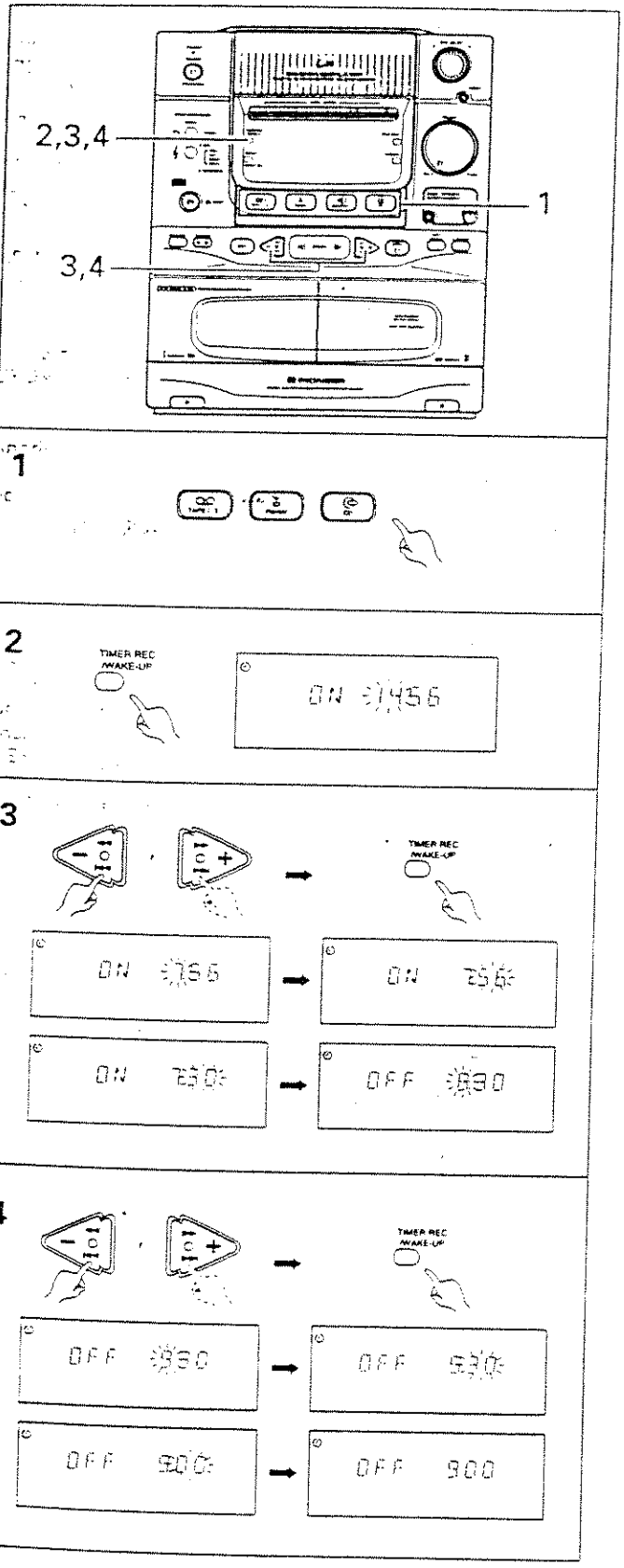
- *After completing use of a microphone:*
Return the microphone level control to the MIN position, then disconnect the microphone plug from its jack. Keep the microphone level control set at MIN when not using a microphone.
- *By performing recording onto TAPE II while using the one-touch karaoke function, you can record the combined (mike-mixing) musical results of source and your singing. Note that microphone mixing cannot be performed, however, when TAPE is selected as the music source.*
Also, during recording, the sound field control and P. BASS functions do not operate.
- *The karaoke function may not operate with optimum effect for some music sources, for example, with music sources featuring duets or where the vocals are otherwise divided between right and left channels or with music sources produced with heavy echo effect.*
- *If microphone feedback ("howling") occurs, perform the following:*
① *Lower the microphone sound level (rotate the MIC LEVEL or LEVEL control to the left).*
② *Remove the microphone as far as possible from the speakers.*
③ *Lower the overall volume.*



Echo adjustment (Australian model only)

Adjust to the desired level with the Echo adjustment knob.

WAKE-UP TIMER



Setting the wake-up timer

Example : When setting from 7:30 AM to 9:00 AM (The function is set to FM 87.50 MHz.)

Before beginning

① Prepare the function you want to play.
- CD : Load a disc in the CD player.
- Tuner : Tune into the radio station you want to listen to. That station is registered when the timer is set.
- Tape : Load a tape in the cassette player. (Playback starts on Tape 1 in the forward (►) direction)

② Set volume to the desired level with the volume control.

1. **Switch power ON, and select the desired function.**
2. **Press the TIMER REC/WAKE-UP button.**
3. **Set the timer start time. First, set the hour using the ◁: or :▷ button, and then press the TIMER REC/WAKE-UP button. Set the minutes in the same way as you set the hour.**
4. **Set the timer finish time. A finish time one hour later than the start time is automatically displayed. First, set the hour using the ◁: or :▷ button, and then press the TIMER REC/WAKE-UP button. Set the minutes in the same way as you set the hour.**
5. **The unit switches to the Check mode, and start/finish times and the function are displayed.**
6. **Switch power OFF. The unit is now in the STANDBY mode.**
7. **Press the TIMER REC/WAKE-UP button until the timer indicator (⏲) lights and "WAKE-UP" is displayed. The mode then changes to the Check mode.**

Canceling the wake-up timer

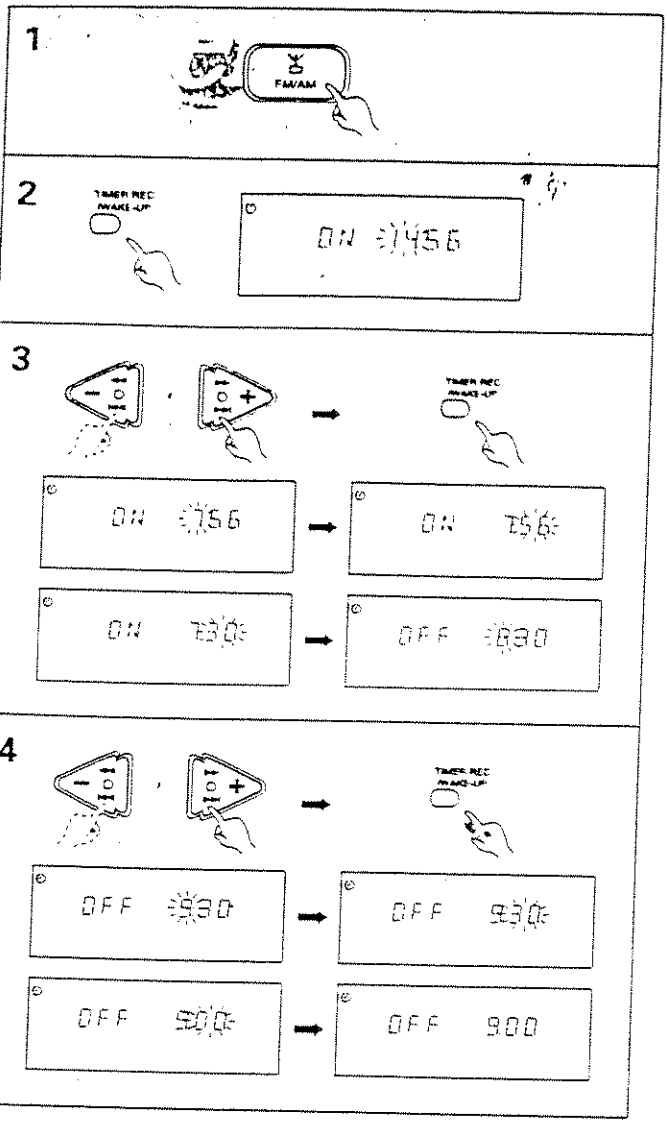
After setting or during setting, press the TIMER REC/WAKE-UP button until the timer indicator (⏲) goes out.

- Either Wake-up timer or Timer recording setting is possible, but not both.
- If you do not cancel the wake-up timer, it will operate at the same time every day.
- When you want to change timer settings or when you make a mistake during setting, repeat setting procedures from the beginning.
- If you press the TIMER REC/WAKE-UP button during timer operation, timer operation is canceled.
- Because this unit has a last disc memory (p.15), the wake-up timer plays the last disc you were listening to before power was switched OFF.

- ***U.S. and Canadian models only.***

During Standby, press the DISPLAY/CLOCK ADJ button to confirm timer settings. Remember that pressing the TIMER REC/WAKE-UP button changes settings.

TIMER RECORDING



Timer recording setting

- Records an FM or AM broadcast at the set time.

Example : When setting from 7:30 AM to 9:00 AM.

Before beginning

① **Load Tape II with a cassette tape for recording. (Recording begins in the forward direction.)**
Set the tuner to the station you want to record.
The station you set here is memorized.
② **Set volume to the desired level with the volume control. (If you're going out, set to a low level.)**

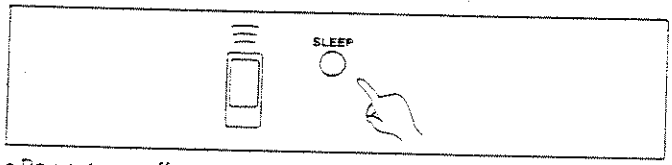
1. **Switch power ON, and select the tuner (FM/AM) function**
2. **Press the TIMER REC/WAKE-UP button.**
3. **Set the timer start time. First, set the hour using the ◁ or ▷ button, and then press the TIMER REC/WAKE-UP button. Set the minutes in the same way as you set the hour.**
4. **Set the timer finish time. A finish time one hour later than the start time is automatically displayed. First, set the hour using the ◁ or ▷ button, and then press the TIMER REC/WAKE-UP button. Set the minutes in the same way as you set the hour.**
5. **The unit switches to the Check mode, and start/finish times and the function are displayed.**
6. **Switch power OFF. The unit is now in the STANDBY mode.**
7. **Press the TIMER REC/WAKE-UP button until the timer indicator (◴ REC) lights and "REC" is displayed. The mode then changes to the Check mode.**

To cancel:
After setting or during setting, press the TIMER REC/WAKE-UP button until the timer indicator (◴ REC) goes out.

- Either Wake-up timer or Timer recording setting is possible, but not both.
- After timer recording is performed once, settings are canceled.
- When you want to change the timer recording settings or when you make a mistake during setting, repeat setting procedures from the beginning.
- If you press the TIMER REC/WAKE-UP button during timer operation, timer operation is canceled.
- ***U.S. and Canadian models only.***

During Standby, press the DISPLAY/CLOCK ADJ button to confirm timer settings. Remember that pressing the TIMER REC/WAKE-UP button changes settings.

SLEEP TIMER



- Power turns off automatically after the specified time has elapsed.
- Can be operated with the remote control unit.

Each time the SLEEP button is pressed, the setting changes in the following sequence:

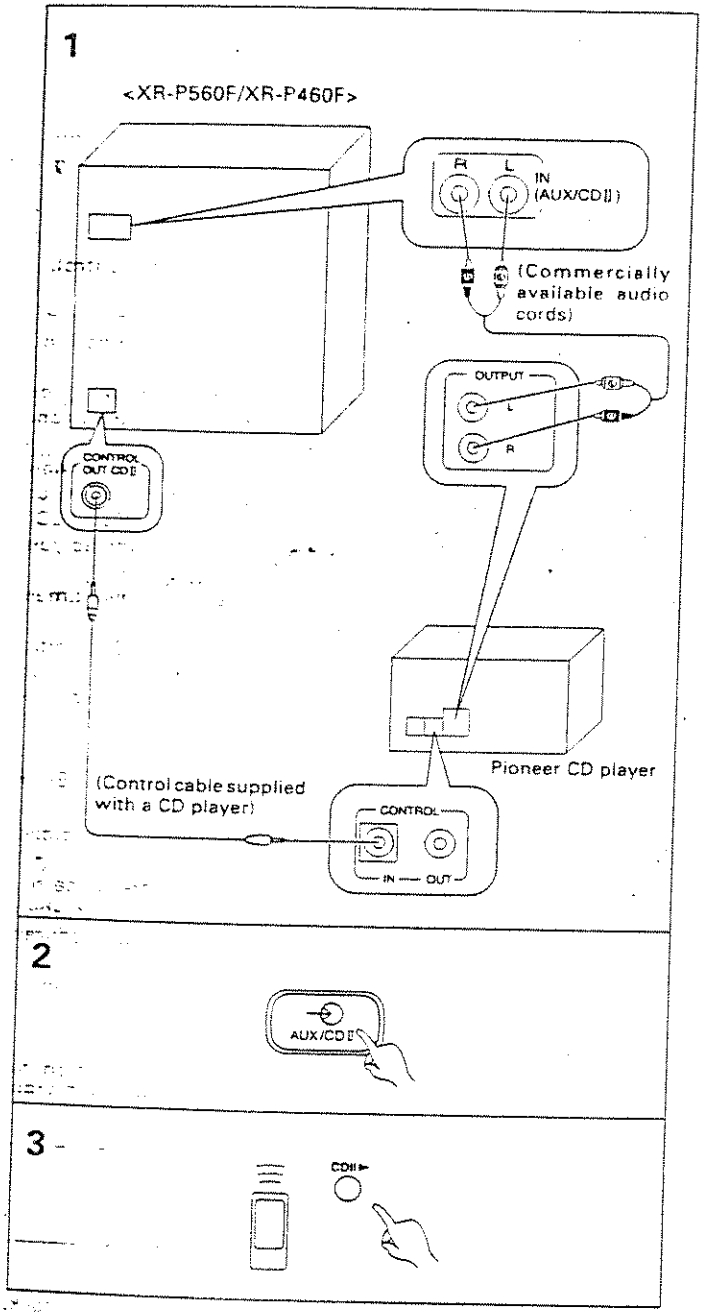
AUTO (AUTO SLEEP) → SLEEP 90 (90 min) → SLEEP 60 (60 min) → SLEEP 30 (30 min) → SLEEP off (0) → AUTO (AUTO SLEEP)

NOTE:
If you press the SLEEP button during Sleep operation, the time remaining till the power turns off is displayed. Do not press the SLEEP button when the remaining time is displayed. Otherwise, the setting changes and the sleep timer cannot function properly.

AUTO SLEEP

- If you press the SLEEP button during CD play, tape playback, or during recording, and select "AUTO", power is automatically switched OFF a few minutes after the CD or tape stops playing, or recording finishes.
- If AUTO SLEEP is used during relay playback, power automatically switches OFF after playback of two sides when only one cassette tape is loaded, and after playback of four sides when two cassette tapes are loaded.

CONNECTING A CD PLAYER TO THIS UNIT



- If you connect a Pioneer CD player that has a control jack, you can use this unit's remote sensor as the connected CD player's remote sensor.

1. **Connect this unit's CONTROL OUT CD II jack to a Pioneer CD player with a CONTROL IN jack.**
2. **Press the AUX/CD II function button.**
3. **Operate with this unit's remote control CD II play button or with the CD player's remote control.**
   Refer to the CD player's operation manual for details concerning operation.

NOTES:

- *If the function is not set to AUX/CD II, the connected CD player cannot be operated.*
- *If the output jack of the CD player is not connected to this unit's IN (AUX/CD II) jack, the CD player cannot be operated.*

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

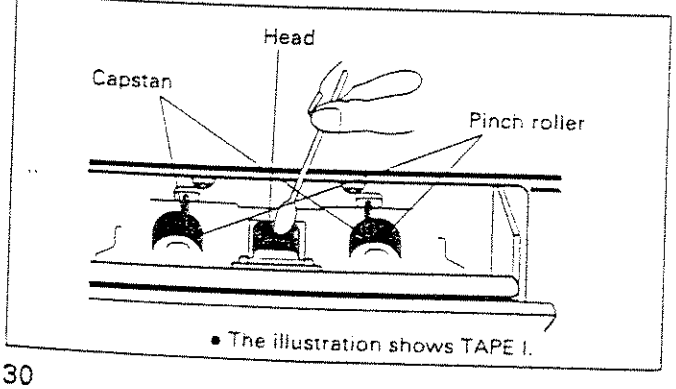
MAINTENANCE

Cleaning the head section

The heads, capstan and pinch roller are parts which are liable to get dirty quite easily. In particular, if the heads are dirty, the high frequency components of the sound will not be reproduced and the stereo balance will be impaired, resulting in a deterioration of sound quality. It is therefore recommended that the head section be cleaned regularly.

1. Turn the power off.
2. Press the Eject button ⏏ to open the cassette door.
3. Dip a cleaning swab into head cleaning fluid and use it to wipe the head, capstan, and pinch rollers. Wait 2-3 minutes until the cleaning fluid dries.

NOTE:
This unit uses a head-slant standby system, with the result that the heads are mounted at an angled position.



• The illustration shows TAPE I.

Demagnetizing the cassette deck heads

The deck heads may become magnetized after the deck has been used for a long period of time, or if a magnet or other magnetized object (screwdriver, etc.) is brought near the heads. Magnetization of the heads results in increased noise and reduced ability to reproduce high-frequency sounds.
In this case, please use a commercially available head demagnetizer at regular intervals to eliminate the magnetic field on the heads. When using a head demagnetizer, turn this unit's power switch ON. In order to prevent adverse effects on the receiver and speakers, however, **be sure to turn down the receiver's volume control to its lowest position,** and disconnect any headphones from their headphones jack. For details, consult the instructions accompanying your head demagnetizer.

Maintenance of external surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.